



SPEC® CINT2006 Result

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Itaotec

SPECint®_rate2006 = 47.8

Servidor Itaotec LX201 (Intel Xeon E5410)

SPECint_rate_base2006 = 44.2

CPU2006 license: 9001

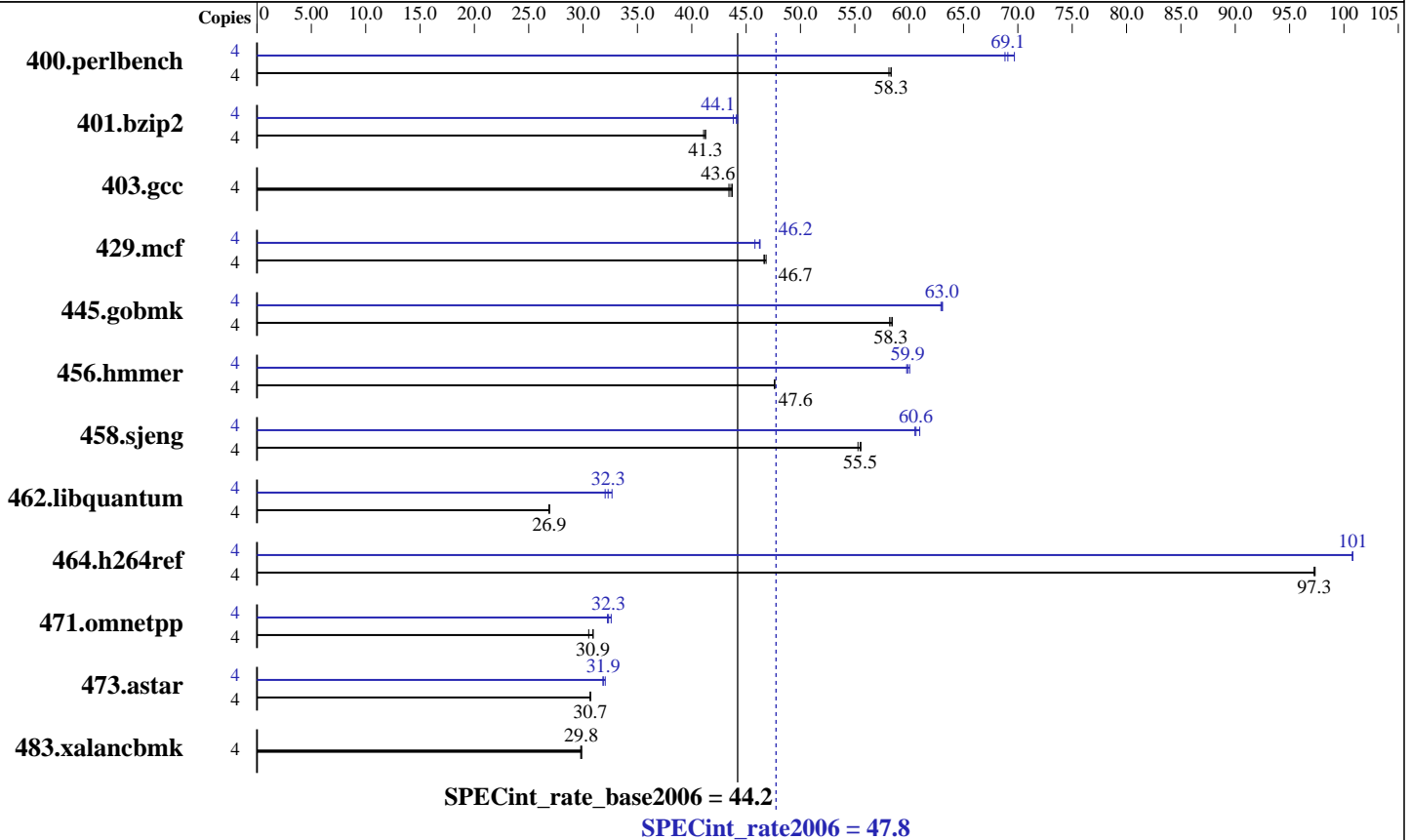
Test date: Nov-2007

Test sponsor: Itaotec

Hardware Availability: Dec-2007

Tested by: Itaotec

Software Availability: Aug-2007



Hardware

CPU Name: Intel Xeon E5410
 CPU Characteristics:
 CPU MHz: 2330
 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: 8 GB (8 * 1GB DDR2 5300F, 2 rank, CL5 ECC)
 Disk Subsystem: SATA, 300GB, 7200rpm
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for Linux32 version 10.0 Build 20070809 Package ID: l_cc_p_10.0.026
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Binutils 2.16.91.0.7



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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	670	58.3	670	58.3	672	58.1	4	566	69.1	568	68.8	561	69.7
401.bzip2	4	935	41.3	939	41.1	935	41.3	4	875	44.1	881	43.8	873	44.2
403.gcc	4	742	43.4	736	43.7	738	43.6	4	742	43.4	736	43.7	738	43.6
429.mcf	4	781	46.7	782	46.6	779	46.8	4	789	46.2	788	46.3	796	45.8
445.gobmk	4	718	58.5	719	58.3	721	58.2	4	666	63.0	665	63.1	667	62.9
456.hmmmer	4	784	47.6	783	47.6	784	47.6	4	624	59.8	622	60.0	623	59.9
458.sjeng	4	875	55.3	871	55.6	872	55.5	4	794	61.0	798	60.6	800	60.5
462.libquantum	4	3080	26.9	3085	26.9	3083	26.9	4	2537	32.7	2566	32.3	2587	32.0
464.h264ref	4	909	97.3	910	97.3	910	97.3	4	878	101	878	101	878	101
471.omnetpp	4	809	30.9	808	30.9	819	30.5	4	767	32.6	775	32.2	773	32.3
473.astar	4	916	30.7	916	30.7	915	30.7	4	876	32.0	882	31.8	882	31.9
483.xalancbmk	4	924	29.9	927	29.8	925	29.8	4	924	29.9	927	29.8	925	29.8

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

General Notes

Bios settings:
Hardware Prefetcher: Disabled
Adjacent Sector Prefetch: Disabled
ulimit -s unlimited used to set stack size to unlimited
taskset command used to assign copies to cores
All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmmer,
for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:
icc
C++ benchmarks:
icpc

Base Portability Flags

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



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Base Optimization Flags

C benchmarks:
-fast
C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc
401.bzip2: /home/richard/intel/cce/10.0.026/bin/icc
456.hmmer: /home/richard/intel/cce/10.0.026/bin/icc
C++ benchmarks:
icpc

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: -L/home/richard/intel/cce/10.0.026/lib -I/home/richard/intel/cce/10.0.026/include -prof-gen(pass 1) -prof-use(pass 2) -fast

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Peak Optimization Flags (Continued)

403.gcc: basepeak = yes

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec_div -ansi-alias

456.hmmer: -L/home/richard/intel/cce/10.0.026/lib -I/home/richard/intel/cce/10.0.026/include
-prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -Ob0
-prefetch -opt-streaming-stores always

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 -Wl,-z,muldefs

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

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-ia32-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-ia32-intel64-linux-flags.20090714.xml>



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