



SPEC® CINT2006 Result

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Itautec

SPECint®_rate2006 = 40.9

Servidor Itautec MX201 (Intel Xeon E5320)

SPECint_rate_base2006 = 37.6

CPU2006 license: 9001

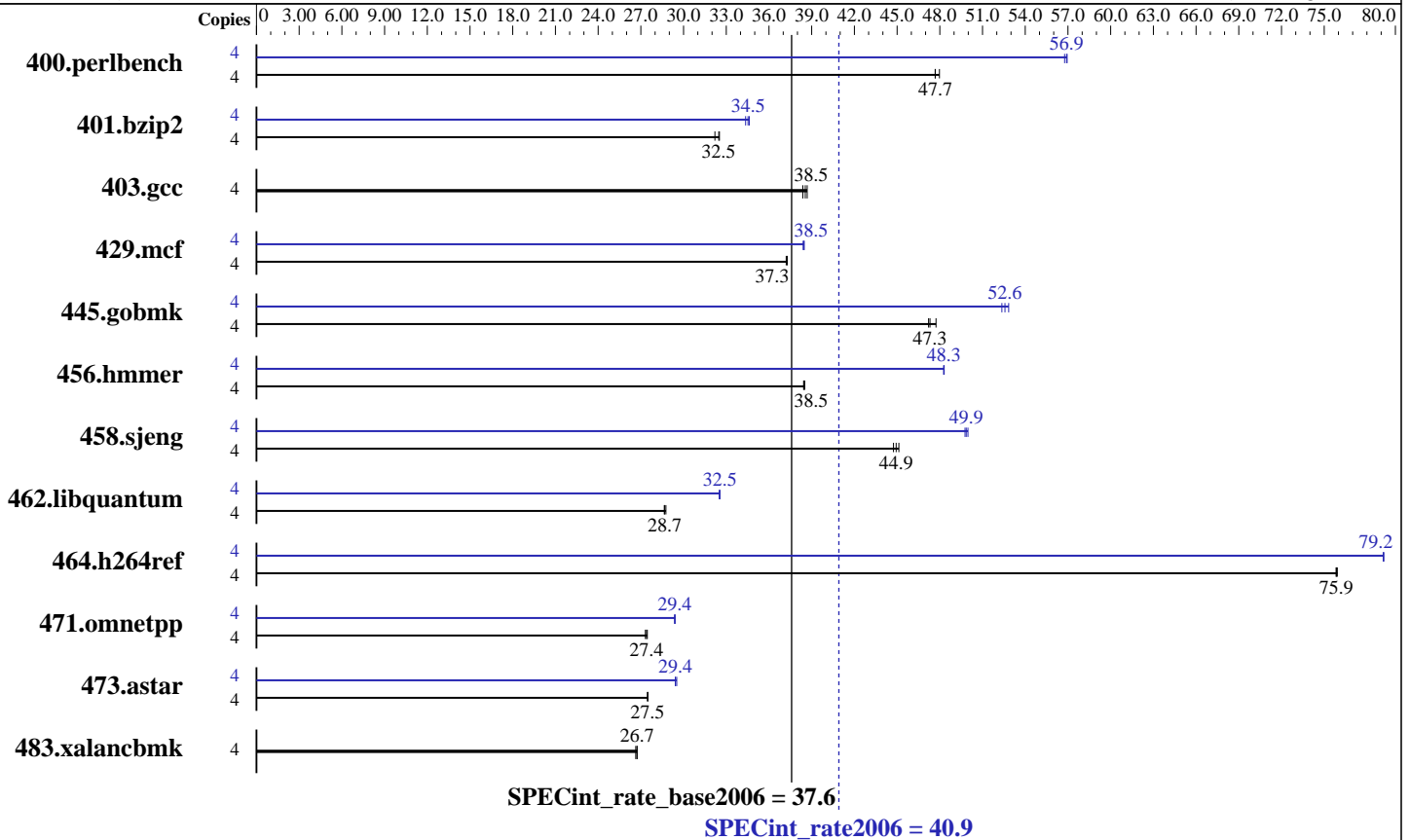
Test sponsor: Itautec

Tested by: Itautec

Test date: Nov-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2007



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: Quad Core, 1.86 GHz
 CPU MHz: 1866
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 * 2GB DDR2 5300F, 2 rank, CL5 ECC)
 Disk Subsystem: 73GB SCSI, 15000rpm
 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	815	48.0	820	47.7	820	47.7	4	686	56.9	688	56.8	687	56.9
401.bzip2	4	1189	32.5	1187	32.5	1199	32.2	4	1118	34.5	1115	34.6	1123	34.4
403.gcc	4	839	38.4	832	38.7	835	38.5	4	839	38.4	832	38.7	835	38.5
429.mcf	4	979	37.3	979	37.3	980	37.2	4	950	38.4	949	38.5	948	38.5
445.gobmk	4	889	47.2	879	47.7	887	47.3	4	801	52.4	794	52.8	798	52.6
456.hmmer	4	970	38.5	969	38.5	971	38.4	4	773	48.3	773	48.3	773	48.3
458.sjeng	4	1073	45.1	1082	44.7	1077	44.9	4	972	49.8	971	49.9	968	50.0
462.libquantum	4	2882	28.8	2893	28.6	2891	28.7	4	2547	32.5	2547	32.5	2549	32.5
464.h264ref	4	1166	75.9	1167	75.8	1167	75.9	4	1118	79.1	1118	79.2	1118	79.2
471.omnetpp	4	911	27.5	915	27.3	912	27.4	4	851	29.4	850	29.4	851	29.4
473.astar	4	1022	27.5	1022	27.5	1022	27.5	4	951	29.5	954	29.4	954	29.4
483.xalancbmk	4	1036	26.6	1032	26.7	1032	26.7	4	1036	26.6	1032	26.7	1032	26.7

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.hmmer,
for peak, are compiled in 64-bit mode
This result was measured on the Servidor Itautec MX201.
The Servidor Itautec MX201 and the Servidor Itautec MX221
are electronically equivalent.

Base Compiler Invocation

C benchmarks:
icc
C++ benchmarks:
icpc

Base Portability Flags

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

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Base Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

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: /opt/intel/cce/10.0.026/bin/icc
456.hmmer: /opt/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:

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Peak Optimization Flags (Continued)

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -L/opt/intel/cce/10.0.026/lib -I/opt/intel/cce/10.0.026/include
-prof-gen(pass 1) -prof-use(pass 2) -fast

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/opt/intel/cce/10.0.026/lib -I/opt/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/Itaotec-ic10-ia32-intel64-linux-flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Itaotec-ic10-ia32-intel64-linux-flags.xml>



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