



SPEC® CINT2006 Result

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IBM Corporation

SPECint®_rate2006 = 33.7

IBM System x3250 M2 (Intel Pentium E5300)

SPECint_rate_base2006 = 32.4

CPU2006 license: 11

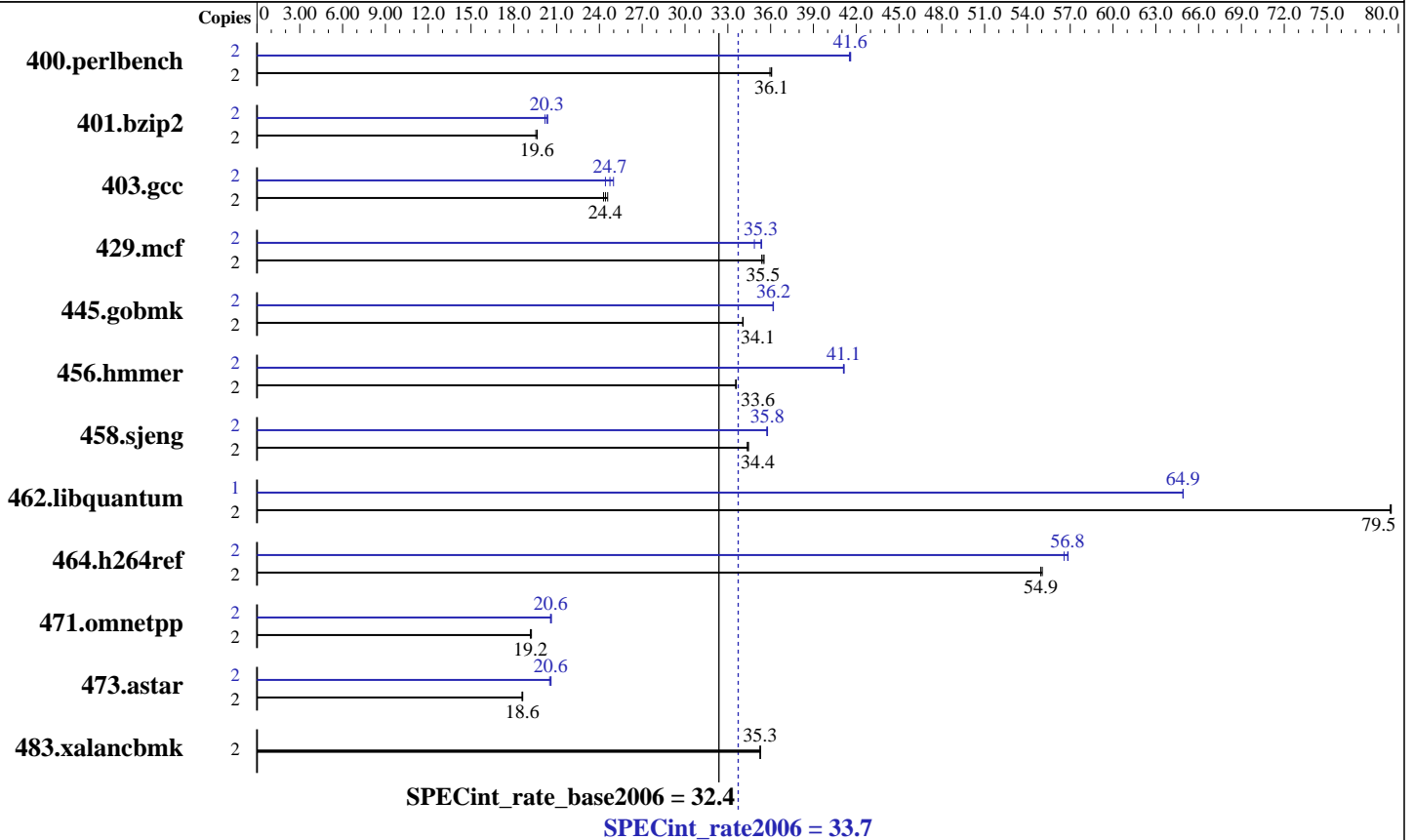
Test date: Jun-2009

Test sponsor: IBM Corporation

Hardware Availability: Apr-2009

Tested by: IBM Corporation

Software Availability: Nov-2008



Hardware

CPU Name: Intel Pentium E5300
 CPU Characteristics: 800 MHz system bus
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB(4 x 2 GB DDR2-6400E ECC)
 Disk Subsystem: 1 x 250 GB SATA, 7200RPM
 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 11.0 for Linux Build 20080930 Package ID: l_cproc_p_11.0.066
 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	2	543	36.0	<u>542</u>	<u>36.1</u>	542	36.1	2	471	41.5	<u>470</u>	<u>41.6</u>	470	41.6
401.bzip2	2	987	19.5	983	19.6	<u>983</u>	<u>19.6</u>	2	947	20.4	<u>950</u>	<u>20.3</u>	957	20.2
403.gcc	2	<u>659</u>	<u>24.4</u>	663	24.3	655	24.6	2	<u>651</u>	<u>24.7</u>	659	24.4	644	25.0
429.mcf	2	516	35.4	513	35.5	<u>514</u>	<u>35.5</u>	2	<u>516</u>	<u>35.3</u>	516	35.4	523	34.9
445.gobmk	2	616	34.1	<u>616</u>	<u>34.1</u>	616	34.0	2	<u>580</u>	<u>36.2</u>	580	36.2	580	36.2
456.hammer	2	555	33.6	556	33.6	<u>556</u>	<u>33.6</u>	2	454	41.1	453	41.2	<u>454</u>	<u>41.1</u>
458.sjeng	2	704	34.4	703	34.4	<u>703</u>	<u>34.4</u>	2	677	35.7	<u>677</u>	<u>35.8</u>	676	35.8
462.libquantum	2	522	79.4	521	79.5	<u>521</u>	<u>79.5</u>	1	<u>319</u>	<u>64.9</u>	319	64.9	319	64.9
464.h264ref	2	806	54.9	<u>806</u>	<u>54.9</u>	804	55.0	2	782	56.6	779	56.8	<u>779</u>	<u>56.8</u>
471.omnetpp	2	650	19.2	<u>652</u>	<u>19.2</u>	652	19.2	2	607	20.6	606	20.6	<u>607</u>	<u>20.6</u>
473.astar	2	<u>755</u>	<u>18.6</u>	756	18.6	754	18.6	2	<u>682</u>	<u>20.6</u>	684	20.5	681	20.6
483.xalancbmk	2	391	35.3	391	35.3	<u>391</u>	<u>35.3</u>	2	391	35.3	391	35.3	<u>391</u>	<u>35.3</u>

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.

General Notes

```

taskset was used to bind processes to cores except
for 462.libquantum peak
Hardware Sector Prefetch Enable and Adjacent Sector Prefetch Enable
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M

```

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

Continued on next page



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Base Portability Flags (Continued)

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

Base Optimization Flags

C benchmarks:

-xSSSE3 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:

-xSSSE3 -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/11.0/066/bin/intel64/icc

456.hmmer: /opt/intel/Compiler/11.0/066/bin/intel64/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



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-prefetch -ansi-alias

403.gcc: -xSSSE3 -ipo -O3 -no-prec-div -static -inline-alloc
-opt-malloc-options=3

429.mcf: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -opt-prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -xSSSE3 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll4

462.libquantum: -xSSSE3 -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) -xSSSE3 -ipo -O3
-no-prec-div -static -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmarheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSSE3 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmarheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090902.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090902.xml>

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

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