



SPEC® CINT2006 Result

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IBM Corporation

SPECint®_rate2006 = 47.8

IBM System x3650 (Intel Xeon 5130)

SPECint_rate_base2006 = 44.4

CPU2006 license: 11

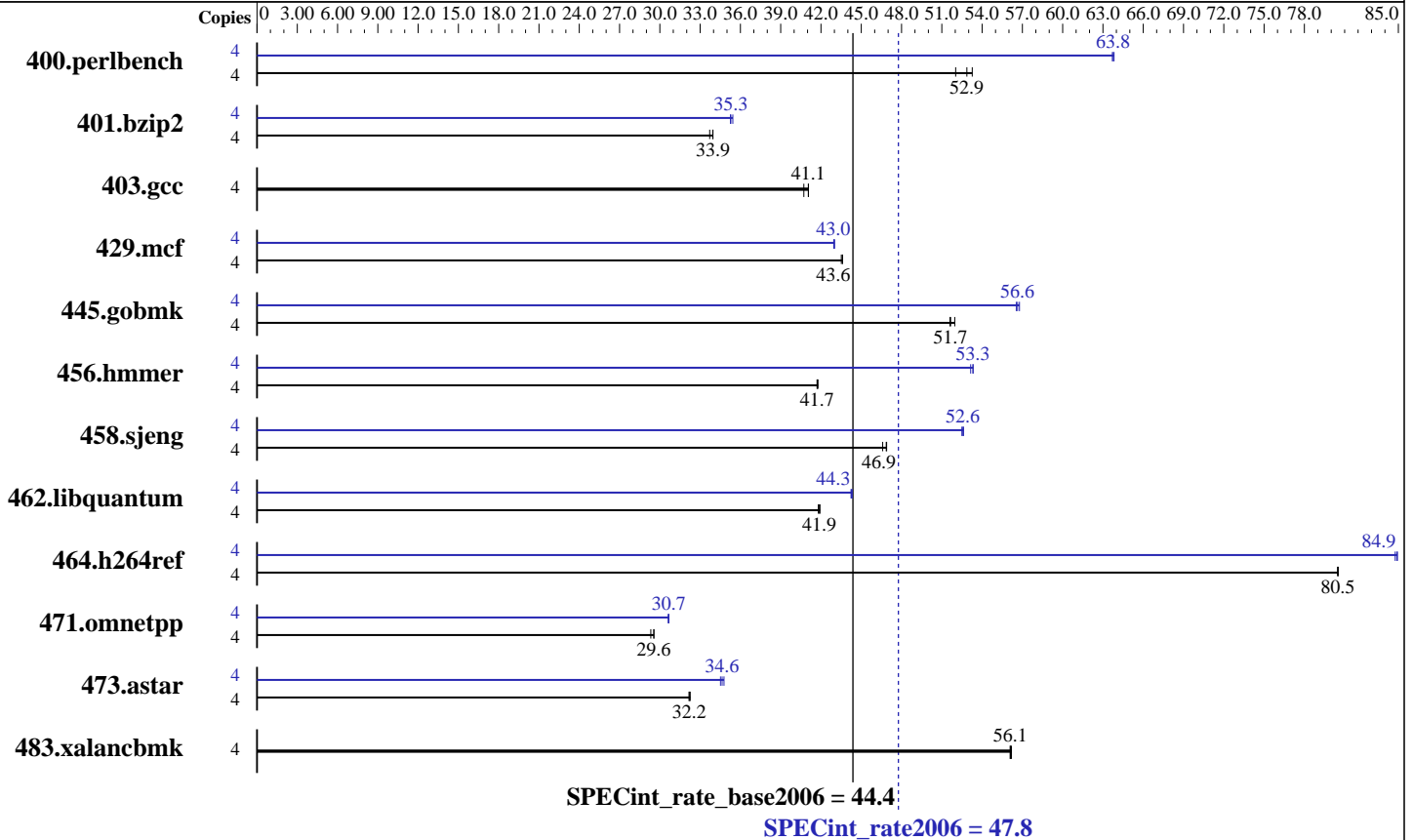
Test date: Jul-2007

Test sponsor: IBM Corporation

Hardware Availability: Jul-2006

Tested by: IBM Corporation

Software Availability: Jul-2007



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2 GB DDR2-5300F ECC)
 Disk Subsystem: 1 x 36 GB SAS, 15000 RPM
 Other Hardware: None

Software

Operating System: SLES 10 (x86_64), 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for Linux version 10.0
 Build 20070426 Package ID: 1_cc_p_10.0.023
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap 8.1



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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	734	53.3	<u>739</u>	<u>52.9</u>	751	52.0	4	613	63.7	<u>613</u>	<u>63.8</u>	612	63.8
401.bzip2	4	1137	34.0	<u>1137</u>	<u>33.9</u>	1145	33.7	4	<u>1094</u>	<u>35.3</u>	1089	35.4	1095	35.3
403.gcc	4	784	41.1	791	40.7	<u>784</u>	<u>41.1</u>	4	784	41.1	791	40.7	<u>784</u>	<u>41.1</u>
429.mcf	4	837	43.6	838	43.5	<u>837</u>	<u>43.6</u>	4	<u>849</u>	<u>43.0</u>	849	43.0	848	43.0
445.gobmk	4	813	51.6	<u>812</u>	<u>51.7</u>	807	52.0	4	739	56.8	<u>741</u>	<u>56.6</u>	742	56.5
456.hammer	4	893	41.8	<u>895</u>	<u>41.7</u>	895	41.7	4	702	53.1	700	53.3	<u>700</u>	<u>53.3</u>
458.sjeng	4	1039	46.6	1032	46.9	<u>1033</u>	<u>46.9</u>	4	<u>921</u>	<u>52.6</u>	922	52.5	920	52.6
462.libquantum	4	1977	41.9	1983	41.8	<u>1979</u>	<u>41.9</u>	4	<u>1873</u>	<u>44.3</u>	1873	44.2	1870	44.3
464.h264ref	4	1099	80.5	1100	80.5	<u>1100</u>	<u>80.5</u>	4	1042	84.9	1044	84.8	<u>1043</u>	<u>84.9</u>
471.omnetpp	4	852	29.3	<u>846</u>	<u>29.6</u>	846	29.6	4	<u>816</u>	<u>30.7</u>	815	30.7	816	30.6
473.astar	4	<u>872</u>	<u>32.2</u>	873	32.2	870	32.3	4	807	34.8	814	34.5	<u>811</u>	<u>34.6</u>
483.xalancbmk	4	491	56.2	<u>492</u>	<u>56.1</u>	492	56.1	4	491	56.2	<u>492</u>	<u>56.1</u>	492	56.1

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

General Notes

taskset utility used to bind CPU(s) to processes

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

Base Optimization Flags

C benchmarks:

-fast

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Base Optimization Flags (Continued)

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/cpu2006.1.0/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/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include
```

```
456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include
```

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
```

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Peak Optimization Flags (Continued)

401.bzip2: -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: -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: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/spec/cpu2006.1.0/lib -lsmartheap

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/Intel-ic10-ia32-intel64-linux-flags.20090714.44.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.44.xml>



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