



SPEC® CINT2006 Result

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IBM Corporation

SPECint®_rate2006 = Not Run

IBM System x3550 (Intel Xeon X5450)

SPECint_rate_base2006 = 110

CPU2006 license: 11

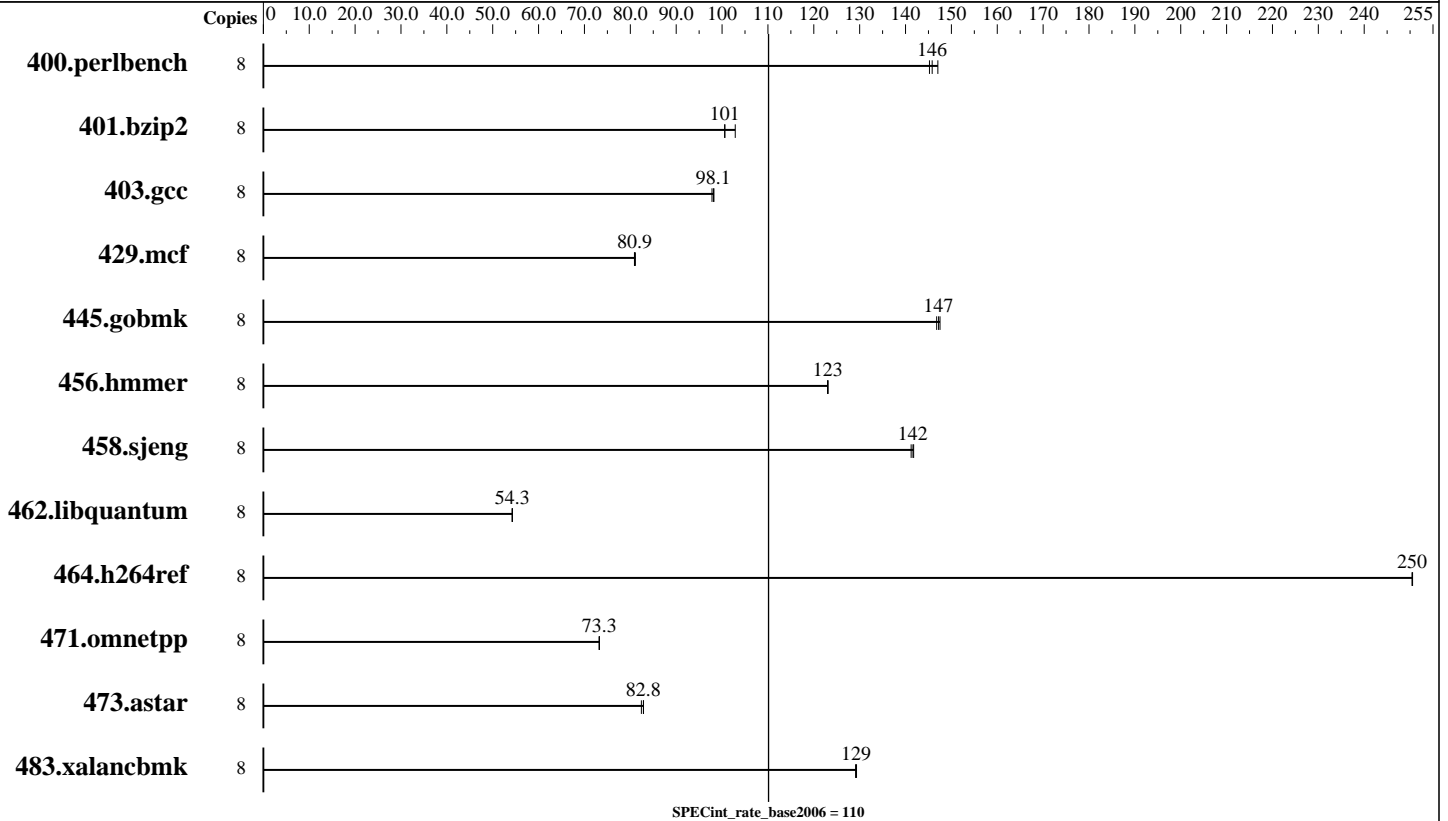
Test date: Dec-2007

Test sponsor: IBM Corporation

Hardware Availability: Jan-2008

Tested by: IBM Corporation

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5450
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 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 x 2 GB DDR2-5300F ECC)
 Disk Subsystem: 1 x 36 GB SAS, 15000 RPM
 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 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: Not Applicable
 Other Software: MicroQuill SmartHeap 8.1 Binutils 2.17.50.0.15



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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	8	538	145	<u>536</u>	<u>146</u>	532	147							
401.bzip2	8	<u>767</u>	<u>101</u>	768	101	750	103							
403.gcc	8	658	97.8	<u>656</u>	<u>98.1</u>	656	98.2							
429.mcf	8	<u>902</u>	<u>80.9</u>	900	81.1	902	80.9							
445.gobmk	8	572	147	569	148	<u>570</u>	<u>147</u>							
456.hammer	8	607	123	<u>606</u>	<u>123</u>	606	123							
458.sjeng	8	<u>684</u>	<u>142</u>	683	142	685	141							
462.libquantum	8	3053	54.3	3056	54.2	<u>3055</u>	<u>54.3</u>							
464.h264ref	8	707	250	<u>707</u>	<u>250</u>	707	251							
471.omnetpp	8	<u>682</u>	<u>73.3</u>	683	73.2	682	73.3							
473.astar	8	<u>678</u>	<u>82.8</u>	678	82.9	681	82.4							
483.xalancbmk	8	<u>427</u>	<u>129</u>	427	129	428	129							

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

General Notes

All benchmarks compiled in 32-bit mode
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled
Powersaved dameon was disabled in OS
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



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Base Optimization Flags

C benchmarks:

```
-fast -inline-calloc -opt-malloc-options=3
```

C++ benchmarks:

```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap
```

Base 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.20090714.13.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.20090714.13.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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