



SPEC® CINT2006 Result

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IBM Corporation

SPECint®_rate2006 = Not Run

IBM System x3400 (Intel Xeon E5405)

SPECint_rate_base2006 = 85.3

CPU2006 license: 11

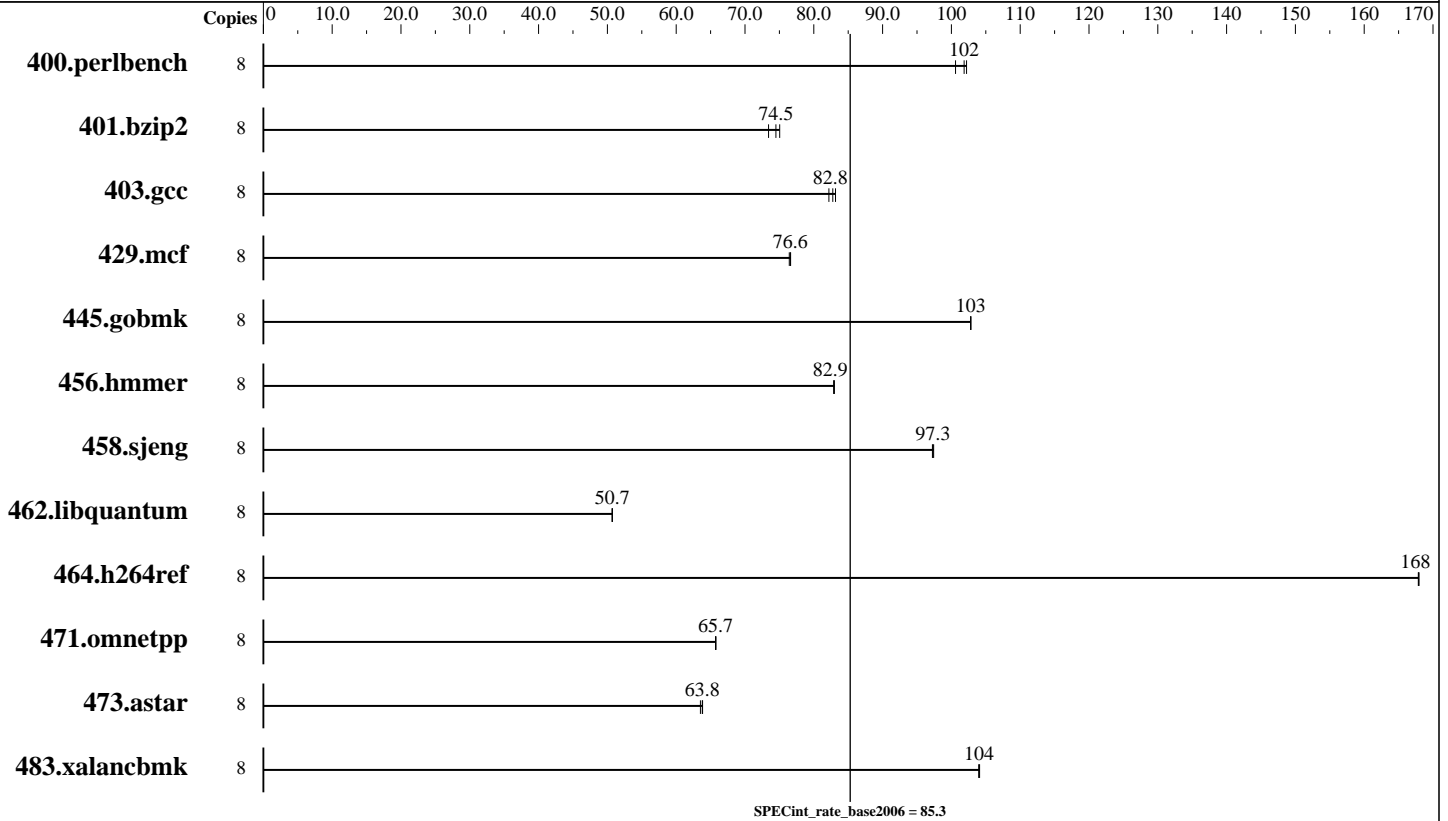
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Mar-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5405
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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 80 GB SATA, 7200 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	777	101	765	102	<u>767</u>	<u>102</u>							
401.bzip2	8	1029	75.0	1051	73.4	<u>1036</u>	<u>74.5</u>							
403.gcc	8	784	82.2	<u>778</u>	<u>82.8</u>	774	83.2							
429.mcf	8	955	76.4	952	76.6	<u>953</u>	<u>76.6</u>							
445.gobmk	8	816	103	816	103	<u>816</u>	<u>103</u>							
456.hammer	8	<u>900</u>	<u>82.9</u>	899	83.0	900	82.9							
458.sjeng	8	995	97.2	<u>995</u>	<u>97.3</u>	994	97.4							
462.libquantum	8	3269	50.7	<u>3269</u>	<u>50.7</u>	3268	50.7							
464.h264ref	8	1055	168	<u>1054</u>	<u>168</u>	1054	168							
471.omnetpp	8	761	65.7	<u>761</u>	<u>65.7</u>	760	65.8							
473.astar	8	884	63.5	880	63.8	<u>880</u>	<u>63.8</u>							
483.xalancbmk	8	<u>531</u>	<u>104</u>	531	104	530	104							

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
taskset utility used to bind CPU(s) to processes
This result is measured on an IBM System x 3500 Server. Note
that the IBM System x 3500 and IBM System x 3400 are electrically
equivalent.

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-ic10.1-INT-ia32-linux-flags.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-INT-ia32-linux-flags.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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