SPEC® CINT2006 Result

IBM Corporation

IBM BladeCenter HS21 (Intel Xeon E5430)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 101

CPU2006 license: 11   **Test date:** Dec-2007
Test sponsor: IBM Corporation   **Hardware Availability:** Jan-2008
Tested by: IBM Corporation   **Software Availability:** Nov-2007

Benchmark	Copies	Result
400.perlbench	8	131
401.bzip2	8	93.8
403.gcc	8	91.5
429.mcf	8	80.6
445.gobmk	8	132
456.hmmer	8	110
458.sjeng	8	127
462.libquantum	8	51.0
464.h264ref	8	224
471.omnetpp	8	67.8
473.astar	8	75.7
483.xalancbmk	8	119

SPECint_rate_base2006 = 101

Hardware

CPU Name:	Intel Xeon E5430
CPU Characteristics:	1333MHz system bus
CPU MHz:	2666
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, 10000 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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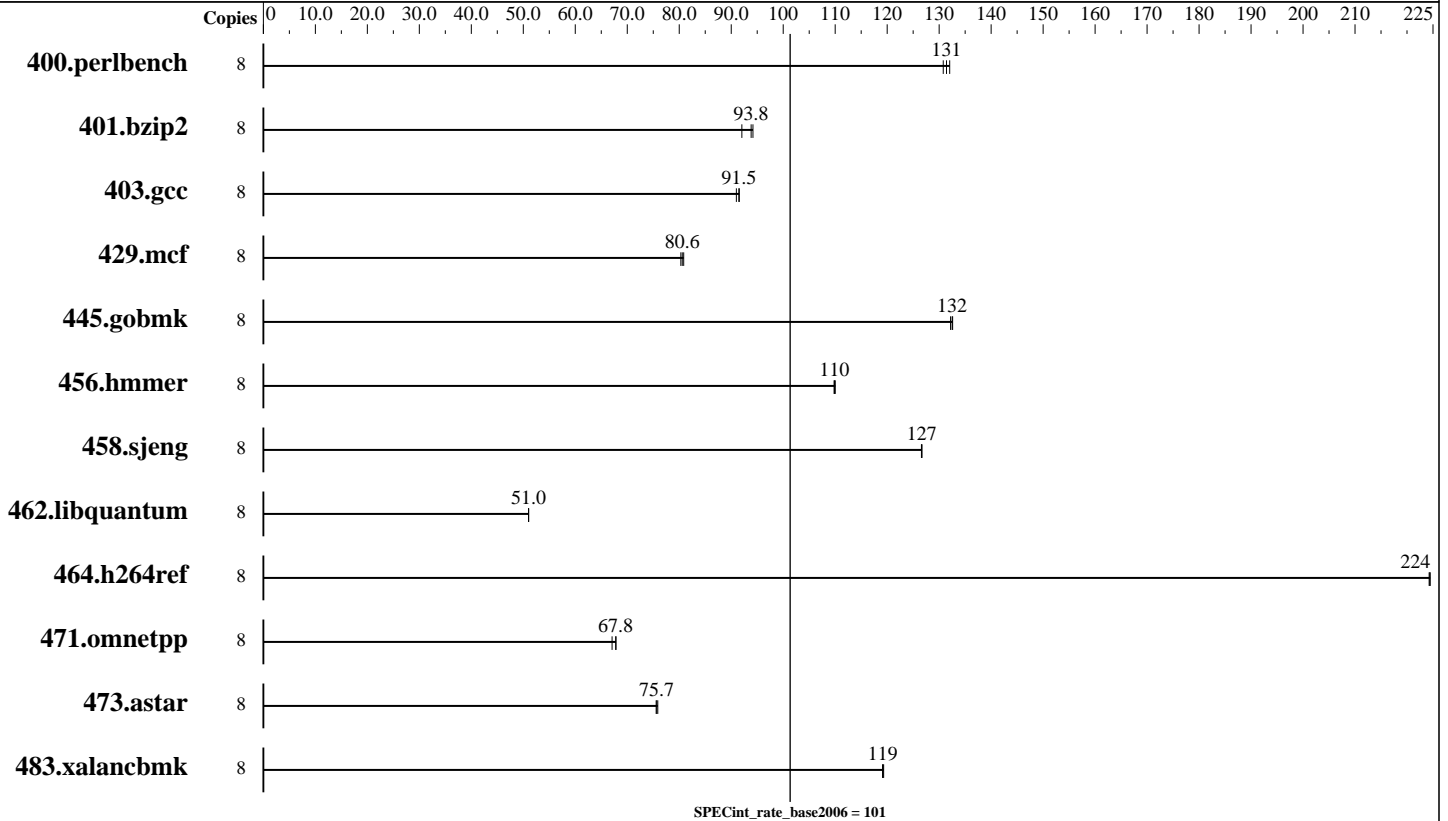**CPU2006 license:** 11
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Results Table

Benchmark	Base						Peak					
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	598	131	592	132	**595**	**131**					
401.bzip2	8	820	94.2	839	92.0	**823**	**93.8**					
403.gcc	8	703	91.5	708	91.0	**704**	**91.5**					
429.mcf	8	909	80.3	902	80.9	**905**	**80.6**					
445.gobmk	8	633	133	635	132	**633**	**132**					
456.hmmer	8	**679**	**110**	680	110	678	110					
458.sjeng	8	**764**	**127**	765	127	764	127					
462.libquantum	8	3249	51.0	**3249**	**51.0**	3250	51.0					
464.h264ref	8	**789**	**224**	789	224	789	224					
471.omnetpp	8	737	67.8	745	67.1	**738**	**67.8**					
473.astar	8	743	75.6	740	75.9	**742**	**75.7**					
483.xalancbmk	8	463	119	**463**	**119**	463	119					

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
```

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

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Base Optimization Flags (Continued)

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 other inquiries, please contact webmaster@spec.org.

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