



SPEC® CINT2006 Result

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IBM Corporation

SPECint®2006 = **Not Run**

IBM BladeCenter HS22 (Intel Xeon E5540)

SPECint_base2006 = **28.5**

CPU2006 license: 11

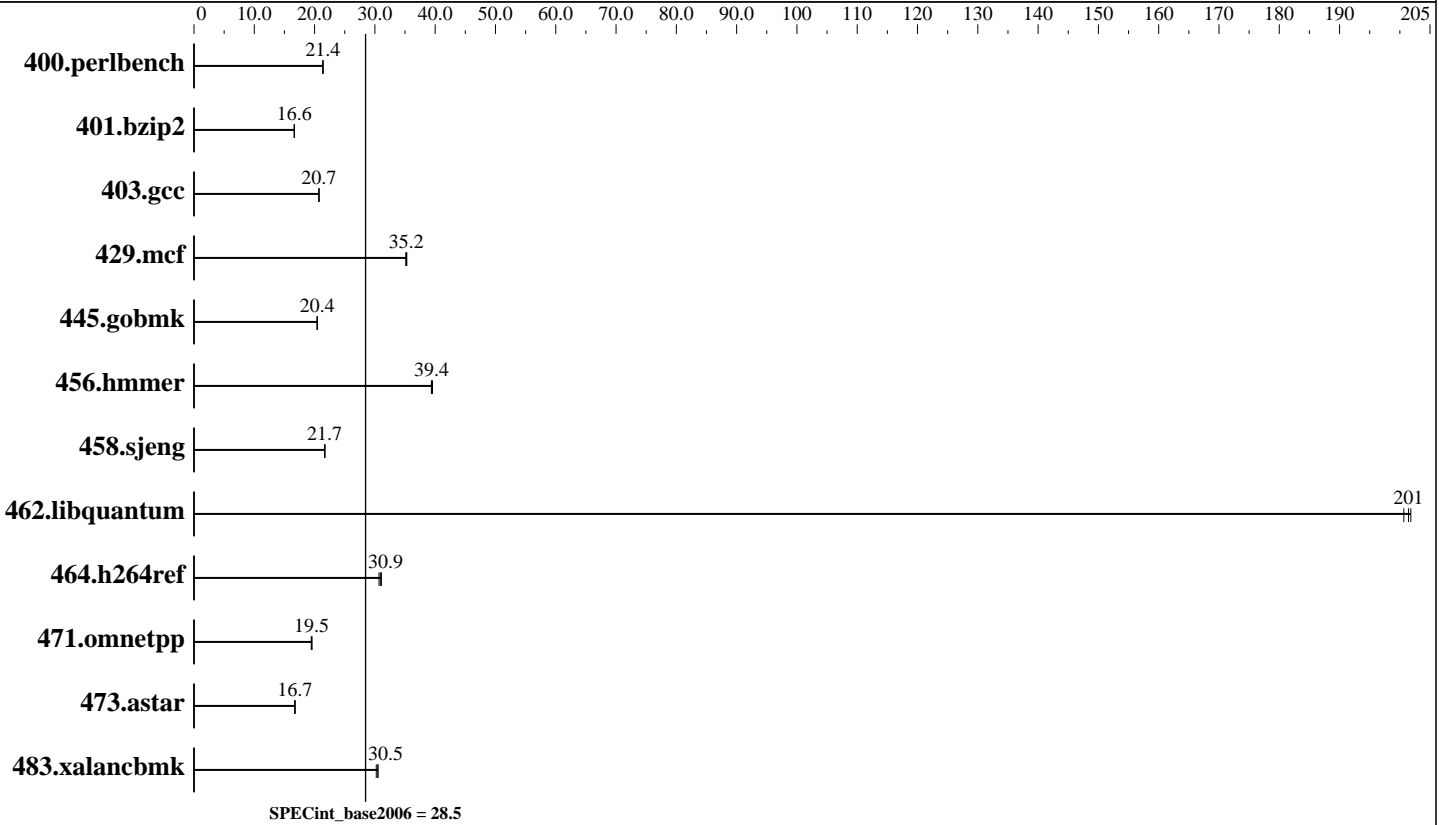
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Dec-2010

Hardware Availability: Apr-2009

Software Availability: Jan-2010



SPECint_base2006 = 28.5

Hardware

CPU Name: Intel Xeon E5540
 CPU Characteristics: Intel Turbo Boost Technology up to 2.80 GHz
 CPU MHz: 2533
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB (2 x 4 GB 2Rx8 PC3-10600R, ECC, running at 1066 MHz and CL7)
 Disk Subsystem: 2 x 146 GB SAS, 10000 RPM, RAID 1
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1 Build 20091130 Package ID: l_cproc_p_11.1.064
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	457	21.4	457	21.4	<u>457</u>	<u>21.4</u>						
401.bzip2	580	16.6	580	16.6	<u>580</u>	<u>16.6</u>						
403.gcc	<u>388</u>	<u>20.7</u>	389	20.7	388	20.7						
429.mcf	258	35.3	<u>259</u>	<u>35.2</u>	260	35.1						
445.gobmk	513	20.5	514	20.4	<u>513</u>	<u>20.4</u>						
456.hammer	237	39.4	236	39.6	<u>237</u>	<u>39.4</u>						
458.sjeng	557	21.7	558	21.7	<u>558</u>	<u>21.7</u>						
462.libquantum	103	202	<u>103</u>	<u>201</u>	103	201						
464.h264ref	712	31.1	721	30.7	<u>716</u>	<u>30.9</u>						
471.omnetpp	<u>320</u>	<u>19.5</u>	321	19.4	320	19.6						
473.astar	<u>420</u>	<u>16.7</u>	420	16.7	418	16.8						
483.xalancbmk	228	30.2	226	30.5	<u>226</u>	<u>30.5</u>						

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

Platform Notes

Turbo Mode enabled in BIOS
Turbo Boost set to Traditional in BIOS
Power C-states enabled in BIOS
Demand scrub enabled in BIOS

General Notes

'ulimit -s unlimited' was used to set the stack size prior to run
Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter

Base Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64



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Base Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

```

Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64

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-ic11.1-linux64-revE.20100316.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100316.xml>

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

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