



SPEC® CINT2006 Result

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IBM Corporation

SPECint®2006 = 18.6

IBM BladeCenter HS21 (Intel Xeon X5355)

SPECint_base2006 = 16.8

CPU2006 license: 11

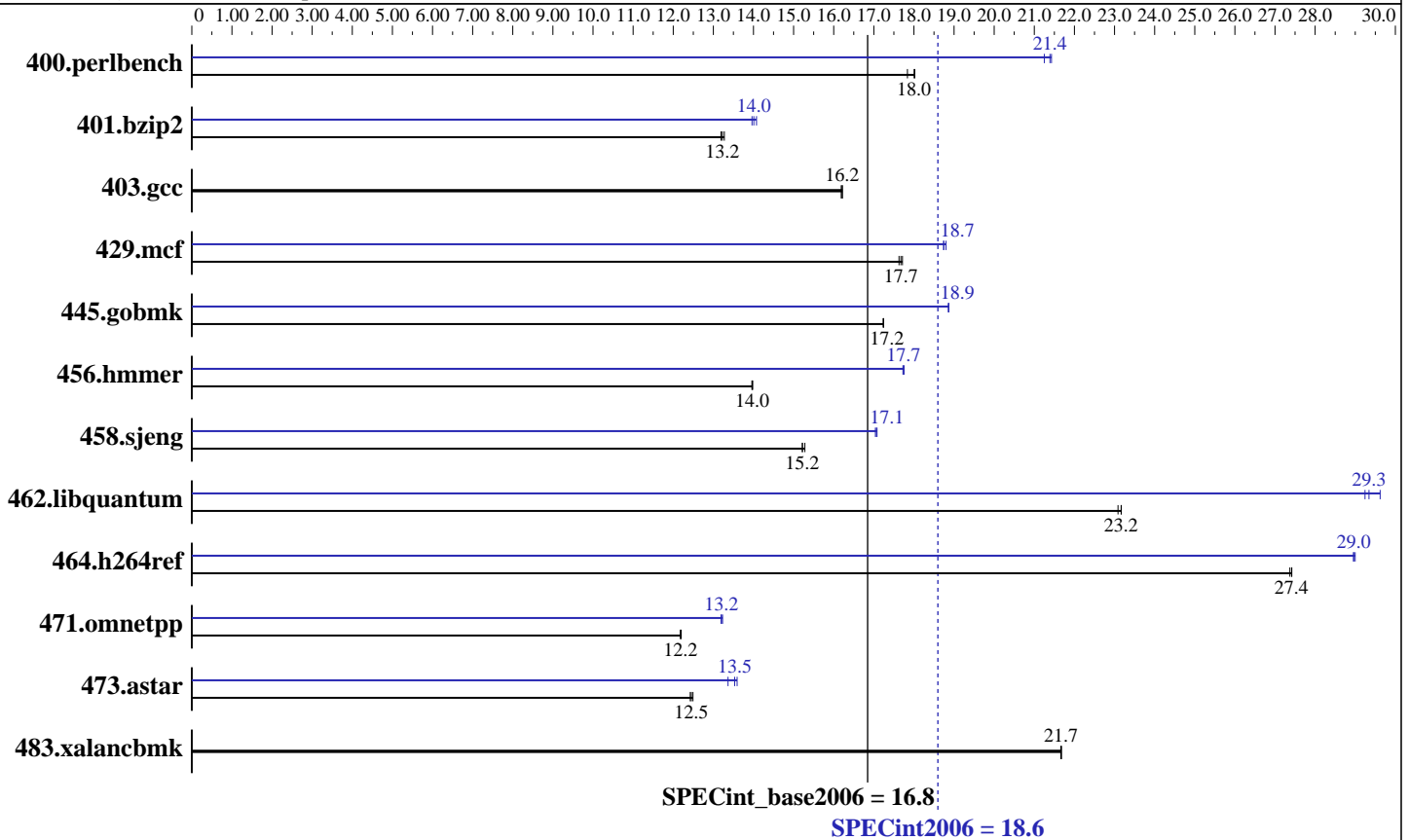
Test date: Jul-2007

Test sponsor: IBM Corporation

Hardware Availability: Apr-2007

Tested by: IBM Corporation

Software Availability: Jul-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2667
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2GB DDR2-5300F ECC)
 Disk Subsystem: 1 x 36 GB SAS, 10000 RPM
 Other Hardware: Memory and I/O Expansion Unit (P/N 42C1600)

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	542	18.0	<u>543</u>	<u>18.0</u>	548	17.8	456	21.4	460	21.2	<u>457</u>	<u>21.4</u>
401.bzip2	727	13.3	732	13.2	<u>730</u>	<u>13.2</u>	<u>689</u>	<u>14.0</u>	691	14.0	686	14.1
403.gcc	<u>497</u>	<u>16.2</u>	496	16.2	497	16.2	<u>497</u>	<u>16.2</u>	496	16.2	497	16.2
429.mcf	515	17.7	<u>516</u>	<u>17.7</u>	517	17.6	485	18.8	<u>487</u>	<u>18.7</u>	487	18.7
445.gobmk	<u>608</u>	<u>17.2</u>	608	17.2	609	17.2	556	18.9	<u>556</u>	<u>18.9</u>	556	18.9
456.hammer	667	14.0	668	14.0	<u>668</u>	<u>14.0</u>	526	17.8	526	17.7	<u>526</u>	<u>17.7</u>
458.sjeng	792	15.3	795	15.2	<u>795</u>	<u>15.2</u>	710	17.0	708	17.1	<u>709</u>	<u>17.1</u>
462.libquantum	894	23.2	897	23.1	<u>894</u>	<u>23.2</u>	700	29.6	<u>706</u>	<u>29.3</u>	709	29.2
464.h264ref	809	27.4	<u>807</u>	<u>27.4</u>	807	27.4	<u>764</u>	<u>29.0</u>	763	29.0	764	29.0
471.omnetpp	513	12.2	512	12.2	<u>513</u>	<u>12.2</u>	474	13.2	<u>473</u>	<u>13.2</u>	472	13.2
473.astar	565	12.4	<u>564</u>	<u>12.5</u>	562	12.5	525	13.4	<u>519</u>	<u>13.5</u>	516	13.6
483.xalancbmk	318	21.7	319	21.7	<u>318</u>	<u>21.7</u>	318	21.7	319	21.7	<u>318</u>	<u>21.7</u>

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

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

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/cpu2006.1.0/lib -lsmartheap



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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

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

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Peak Optimization Flags (Continued)

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

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