



SPEC® CINT2006 Result

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IBM Corporation

SPECint®2006 = 24.2

IBM System x3550 (Intel Xeon E5430)

SPECint_base2006 = 20.9

CPU2006 license: 11

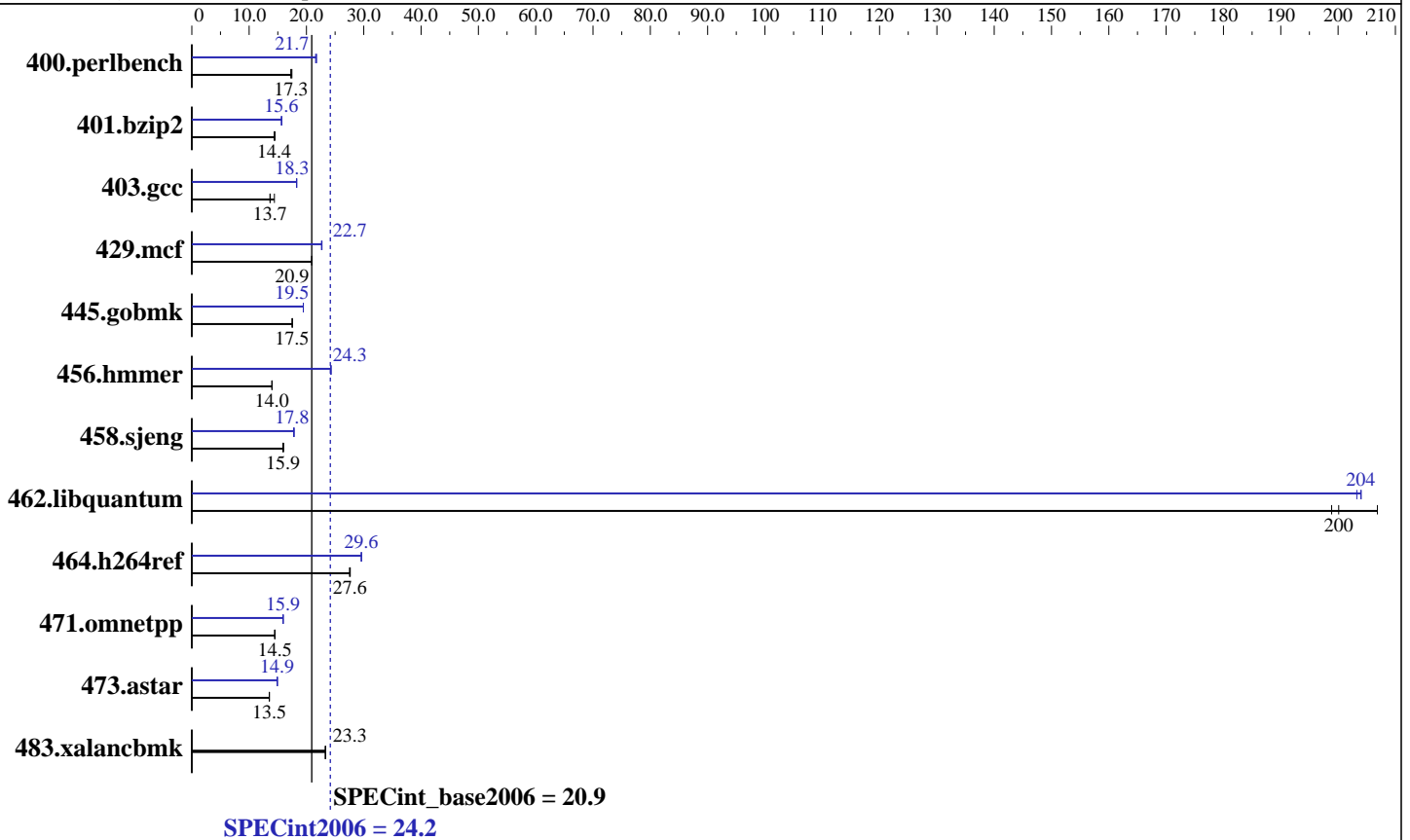
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5430
 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: 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: Yes
 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 Binutils 2.17.50.0.15



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	560	17.5	<u>563</u>	<u>17.3</u>	565	17.3	452	21.6	<u>450</u>	<u>21.7</u>	449	21.7
401.bzip2	<u>670</u>	<u>14.4</u>	671	14.4	665	14.5	615	15.7	617	15.6	<u>617</u>	<u>15.6</u>
403.gcc	<u>589</u>	<u>13.7</u>	559	14.4	590	13.6	440	18.3	<u>440</u>	<u>18.3</u>	441	18.3
429.mcf	435	21.0	436	20.9	<u>435</u>	<u>20.9</u>	<u>403</u>	<u>22.7</u>	402	22.7	403	22.6
445.gobmk	<u>599</u>	<u>17.5</u>	599	17.5	598	17.5	<u>539</u>	<u>19.5</u>	539	19.4	539	19.5
456.hmmmer	<u>667</u>	<u>14.0</u>	667	14.0	667	14.0	<u>384</u>	<u>24.3</u>	384	24.3	385	24.3
458.sjeng	<u>760</u>	<u>15.9</u>	755	16.0	761	15.9	678	17.9	<u>679</u>	<u>17.8</u>	681	17.8
462.libquantum	104	199	<u>104</u>	<u>200</u>	100	207	<u>102</u>	<u>204</u>	102	203	102	204
464.h264ref	804	27.5	801	27.6	<u>803</u>	<u>27.6</u>	747	29.6	<u>748</u>	<u>29.6</u>	749	29.6
471.omnetpp	432	14.5	<u>431</u>	<u>14.5</u>	431	14.5	392	16.0	<u>392</u>	<u>15.9</u>	393	15.9
473.astar	520	13.5	518	13.5	<u>519</u>	<u>13.5</u>	471	14.9	<u>471</u>	<u>14.9</u>	470	14.9
483.xalancbmk	296	23.3	296	23.3	<u>296</u>	<u>23.3</u>	296	23.3	296	23.3	<u>296</u>	<u>23.3</u>

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 except 401.bzip2 and 456.hmmmer, for peak, are compiled in 64-bit mode
Hardware Sector Prefetch Enabled and Adjacent Sector Prefetch Enabled
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
KMP_STACKSIZE set to null
Powersaved dameon was disabled in OS

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 -vec-guard-write -parallel -par-runtime-control

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

Peak Compiler Invocation

C benchmarks (except as noted below):
 icc

401.bzip2: /opt/intel/cce/10.1.008/bin/icc
 -L/opt/intel/cce/10.1.008/lib
 -I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
 -L/opt/intel/cce/10.1.008/lib
 -I/opt/intel/cce/10.1.008/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:

Continued on next page



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Peak Optimization Flags (Continued)

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 -prefetch
-auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias

456.hmmr: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
-auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs
-L/spec/users/rahul/cpu2006.1.0/lib -lsmartheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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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.20090714.14.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.20090714.14.xml>

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

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