



SPEC® CINT2006 Result

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Intel Corporation

Supermicro X7DB8+ (Intel Xeon processor 5130, 2.00 GHz)

SPECint®2006 = 15.5

SPECint_base2006 = 14.0

CPU2006 license: 13

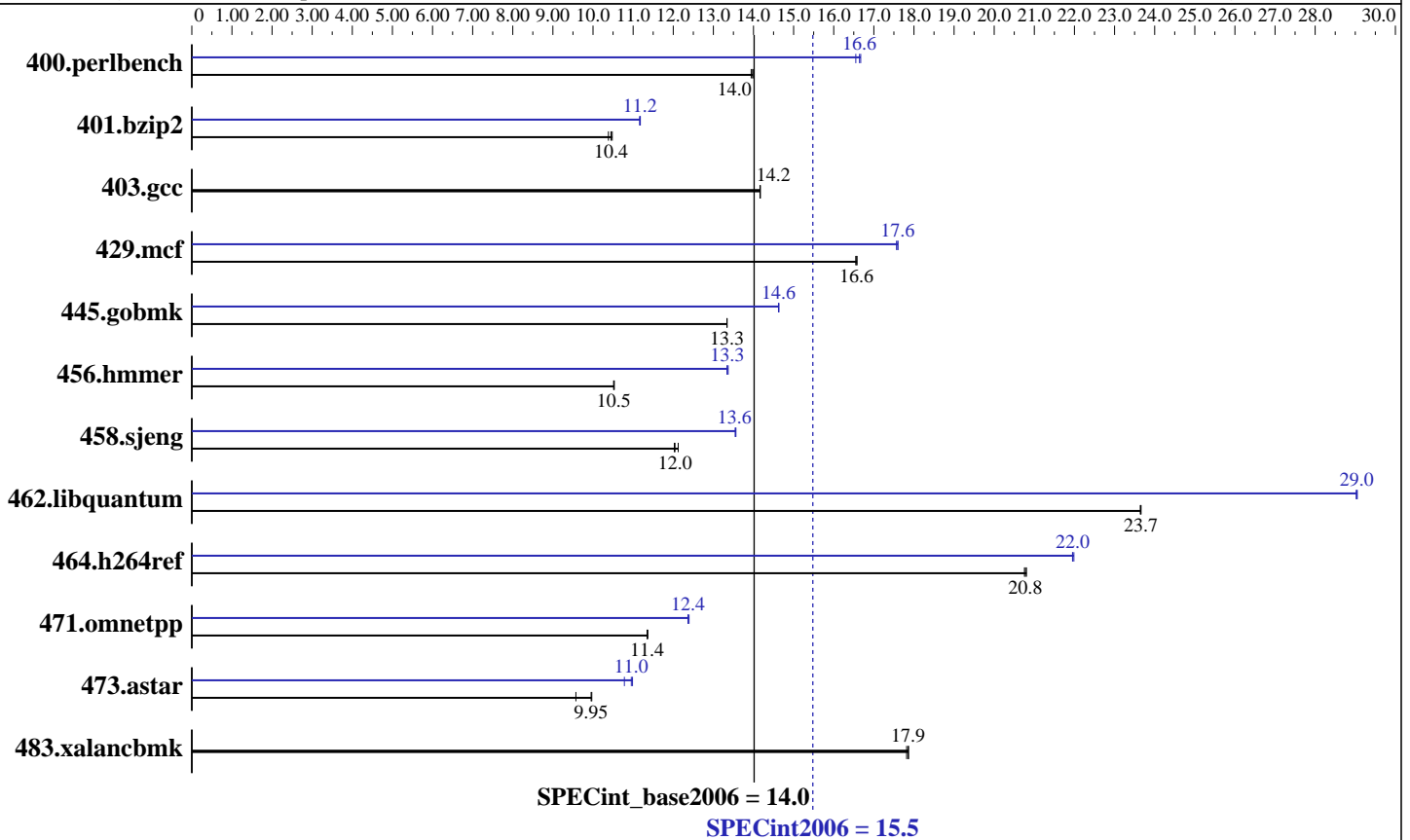
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jun-2007

Hardware Availability: Nov-2006

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon 5130
 CPU Characteristics: Dual Core, 2.00 GHz
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (8 * 1GB Samsung DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: Seagate, SCSI, 73GB, 10Krpm, 1 disk only
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp for x86_64
 Compiler: Intel C++ Compiler for Linux32 version 10.0 Build 20070426 Package ID: l_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: SmartHeap library V8.1 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	701	13.9	<u>699</u>	<u>14.0</u>	699	14.0	<u>586</u>	<u>16.7</u>	590	16.6	<u>587</u>	<u>16.6</u>
401.bzip2	921	10.5	<u>923</u>	<u>10.4</u>	929	10.4	<u>863</u>	<u>11.2</u>	863	11.2	865	11.2
403.gcc	568	14.2	568	14.2	<u>568</u>	<u>14.2</u>	568	14.2	568	14.2	<u>568</u>	<u>14.2</u>
429.mcf	<u>550</u>	<u>16.6</u>	551	16.5	550	16.6	519	17.6	<u>518</u>	<u>17.6</u>	518	17.6
445.gobmk	<u>786</u>	<u>13.3</u>	786	13.3	786	13.3	717	14.6	717	14.6	<u>717</u>	<u>14.6</u>
456.hmmer	<u>887</u>	<u>10.5</u>	887	10.5	886	10.5	698	13.4	<u>699</u>	<u>13.3</u>	699	13.3
458.sjeng	<u>1005</u>	<u>12.0</u>	998	12.1	1006	12.0	<u>893</u>	<u>13.6</u>	893	13.5	892	13.6
462.libquantum	876	23.7	<u>876</u>	<u>23.7</u>	876	23.6	<u>714</u>	<u>29.0</u>	713	29.1	714	29.0
464.h264ref	1064	20.8	<u>1065</u>	<u>20.8</u>	1066	20.8	<u>1008</u>	<u>22.0</u>	1007	22.0	1008	22.0
471.omnetpp	551	11.3	550	11.4	<u>550</u>	<u>11.4</u>	<u>505</u>	<u>12.4</u>	504	12.4	505	12.4
473.astar	<u>705</u>	<u>9.95</u>	704	9.97	733	9.57	<u>641</u>	<u>11.0</u>	639	11.0	651	10.8
483.xalanbmk	<u>386</u>	<u>17.9</u>	386	17.9	387	17.8	<u>386</u>	<u>17.9</u>	386	17.9	387	17.8

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

General Notes

Bios settings:

Hardware Prefetcher: Enabled

Adjacent Sector Prefetch: Enabled

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

462.libquantum: -DSPEC_CPU_LINUX

483.xalanbmk: -DSPEC_CPU_LINUX



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Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/spec/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/10.0.023/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:

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

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

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.20090714.35.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.20090714.35.xml>



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