



SPEC® CINT2006 Result

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Intel Corporation

Supermicro X7DB8+ (Intel Xeon processor X5365, 3.00 GHz)

SPECint®2006 = 20.8

SPECint_base2006 = 18.9

CPU2006 license: 13

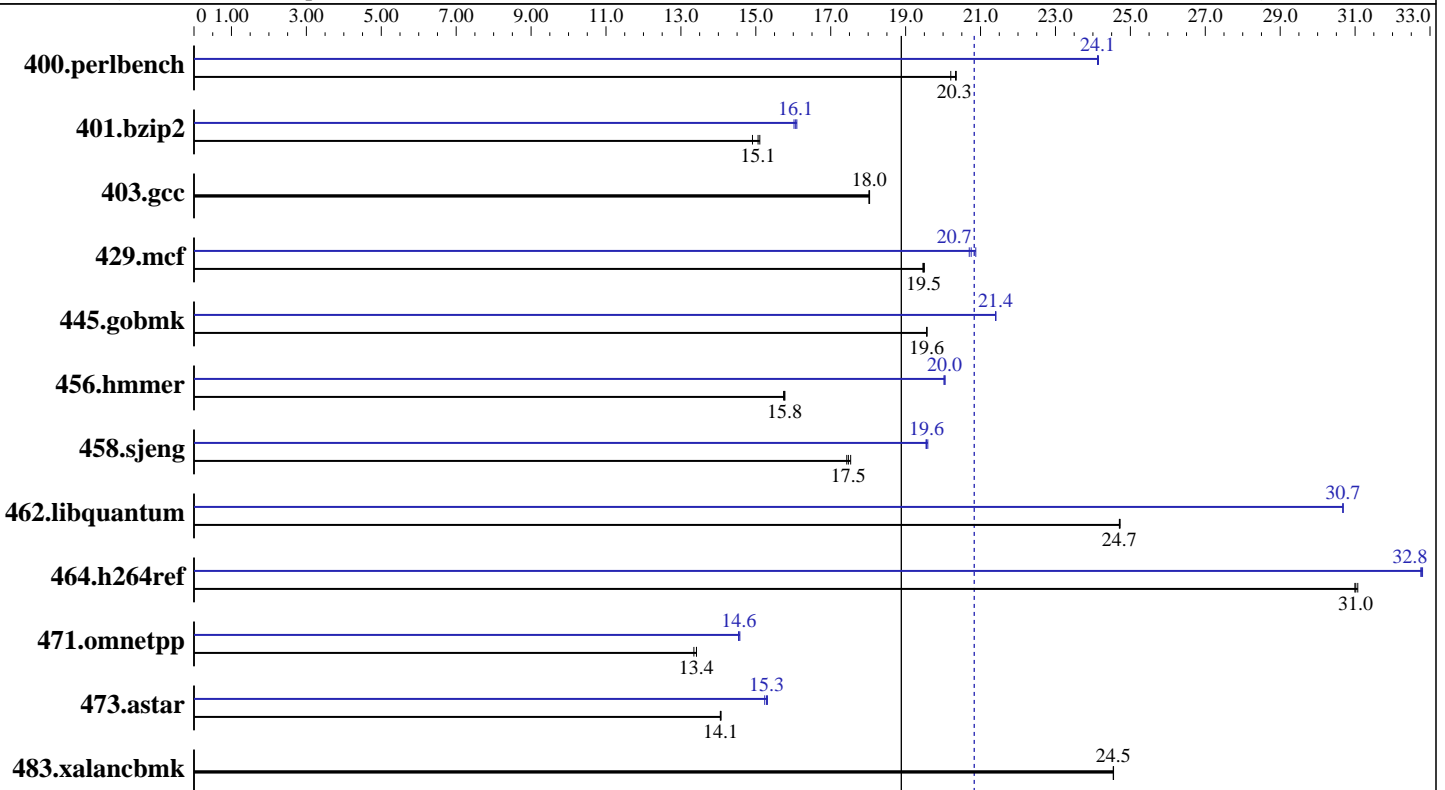
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: May-2007

Hardware Availability: Sep-2007

Software Availability: Jun-2007



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Hardware

CPU Name: Intel Xeon X5365
 CPU Characteristics: Quad Core, 3.0 GHz
 CPU MHz: 3000
 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 * 2GB 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	480	20.4	<u>481</u>	<u>20.3</u>	484	20.2	405	24.1	405	24.1	<u>405</u>	<u>24.1</u>
401.bzip2	647	14.9	<u>641</u>	<u>15.1</u>	639	15.1	<u>601</u>	<u>16.1</u>	602	16.0	600	16.1
403.gcc	447	18.0	<u>447</u>	<u>18.0</u>	446	18.0	447	18.0	<u>447</u>	<u>18.0</u>	446	18.0
429.mcf	468	19.5	469	19.5	<u>468</u>	<u>19.5</u>	<u>440</u>	<u>20.7</u>	437	20.9	441	20.7
445.gobmk	<u>536</u>	<u>19.6</u>	536	19.6	536	19.6	<u>490</u>	<u>21.4</u>	490	21.4	490	21.4
456.hmmer	593	15.7	591	15.8	<u>592</u>	<u>15.8</u>	<u>465</u>	<u>20.0</u>	466	20.0	465	20.1
458.sjeng	690	17.5	694	17.4	<u>693</u>	<u>17.5</u>	619	19.5	618	19.6	<u>619</u>	<u>19.6</u>
462.libquantum	<u>839</u>	<u>24.7</u>	838	24.7	839	24.7	675	30.7	675	30.7	<u>675</u>	<u>30.7</u>
464.h264ref	714	31.0	712	31.1	<u>713</u>	<u>31.0</u>	676	32.8	675	32.8	<u>675</u>	<u>32.8</u>
471.omnetpp	468	13.3	<u>466</u>	<u>13.4</u>	466	13.4	430	14.5	429	14.6	<u>430</u>	<u>14.6</u>
473.astar	<u>499</u>	<u>14.1</u>	500	14.1	499	14.1	461	15.2	<u>459</u>	<u>15.3</u>	459	15.3
483.xalanbmk	<u>281</u>	<u>24.5</u>	281	24.5	281	24.6	<u>281</u>	<u>24.5</u>	281	24.5	281	24.6

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: Disabled

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

456.hmmer: /opt/intel/cce/10.0.023/bin/icc

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: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-prof-gen(pass 1) -prof-use(pass 2) -fast

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Peak Optimization Flags (Continued)

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.hmmr: -L/opt/intel/cce/10.0.023/lib -I/opt/intel/cce/10.0.023/include
-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: -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 -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.20090715.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.20090715.xml>



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