



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 24.4

Intel DQ45CB motherboard (Intel Core 2 Duo E7600)

SPECint_base2006 = 22.5

CPU2006 license: 13

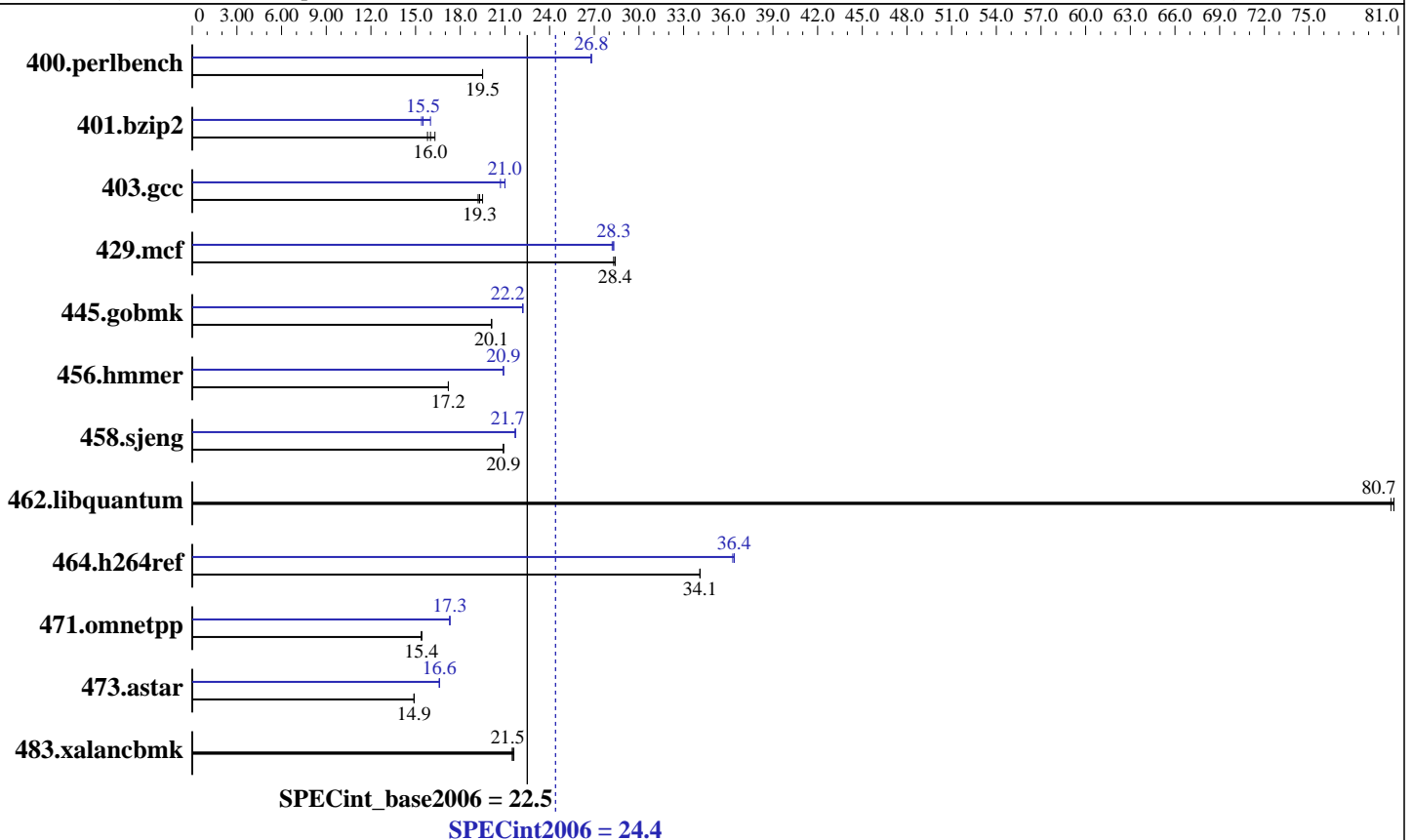
Test date: Apr-2009

Test sponsor: Intel Corporation

Hardware Availability: May-2009

Tested by: Intel Corporation

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Duo E7600
 CPU Characteristics:
 CPU MHz: 3066
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 3 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1GB DDR2-800 CL5)
 Disk Subsystem: Seagate 320 GB SATA, 7200RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate w/ SP1 (64-bit)
 Compiler: Intel C++ Compiler Professional 11.0 for IA32
 Build 20080930 Package ID: w_cproc_p_11.0.054
 Microsoft Visual Studio 2008 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.1 from
<http://www.microquill.com/>



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	502	19.5	500	19.5	<u>501</u>	<u>19.5</u>	<u>365</u>	<u>26.8</u>	365	26.8	364	26.8
401.bzip2	610	15.8	593	16.3	<u>603</u>	<u>16.0</u>	604	16.0	628	15.4	<u>621</u>	<u>15.5</u>
403.gcc	418	19.2	412	19.5	<u>417</u>	<u>19.3</u>	384	21.0	389	20.7	<u>384</u>	<u>21.0</u>
429.mcf	323	28.3	<u>321</u>	<u>28.4</u>	321	28.4	322	28.3	323	28.2	<u>323</u>	<u>28.3</u>
445.gobmk	522	20.1	522	20.1	<u>522</u>	<u>20.1</u>	473	22.2	472	22.2	<u>472</u>	<u>22.2</u>
456.hmmr	542	17.2	541	17.2	<u>541</u>	<u>17.2</u>	446	20.9	446	20.9	<u>446</u>	<u>20.9</u>
458.sjeng	<u>580</u>	<u>20.9</u>	579	20.9	580	20.9	557	21.7	<u>557</u>	<u>21.7</u>	557	21.7
462.libquantum	258	80.5	257	80.7	<u>257</u>	<u>80.7</u>	258	80.5	257	80.7	<u>257</u>	<u>80.7</u>
464.h264ref	649	34.1	649	34.1	<u>649</u>	<u>34.1</u>	609	36.3	<u>609</u>	<u>36.4</u>	609	36.4
471.omnetpp	<u>406</u>	<u>15.4</u>	406	15.4	405	15.4	<u>361</u>	<u>17.3</u>	361	17.3	361	17.3
473.astar	473	14.9	<u>473</u>	<u>14.9</u>	472	14.9	422	16.6	<u>422</u>	<u>16.6</u>	422	16.6
483.xalancbmk	<u>320</u>	<u>21.5</u>	320	21.5	320	21.6	<u>320</u>	<u>21.5</u>	320	21.5	320	21.6

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

General Notes

Tested systems can be used with Shin-G ATX case,
 Antec Truepower Trio power supply TP3-650
 Binaries were built on Windows Vista Ultimate (32-bit)
 Binaries were built on Windows Vista Ultimate (32-bit)
 OMP_NUM_THREADS set to number of logical processors as seen by the OS
 KMP_AFFINITY set to physical,0

Base Compiler Invocation

C benchmarks:
 icl -Qvc9 -Qc99

C++ benchmarks:
 icl -Qvc9

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
 483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword



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Base Optimization Flags

C benchmarks:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qparallel
-Qpar-runtime-control -Qvec-guard-write /F512000000

C++ benchmarks:

-QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc9 -Qc99

C++ benchmarks:

icl -Qvc9

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalanbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
/F512000000

403.gcc: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- /F512000000

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Peak Optimization Flags (Continued)

429.mcf: -QxSSSE3 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

445.gobmk: -QxSSSE3 -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSSE3 -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

458.sjeng: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: basepeak = yes

464.h264ref: Same as 456.hmmer

C++ benchmarks:

471.omnetpp: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=block /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

473.astar: -QxSSSE3(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-ra-region-strategy=routine /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

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-ic11.0-win32-revA.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090710.xml>



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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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