



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 48.3

Dell Precision T3400 (Intel E8600, 3.33 GHz)

SPECint_rate_base2006 = 45.6

CPU2006 license: 55

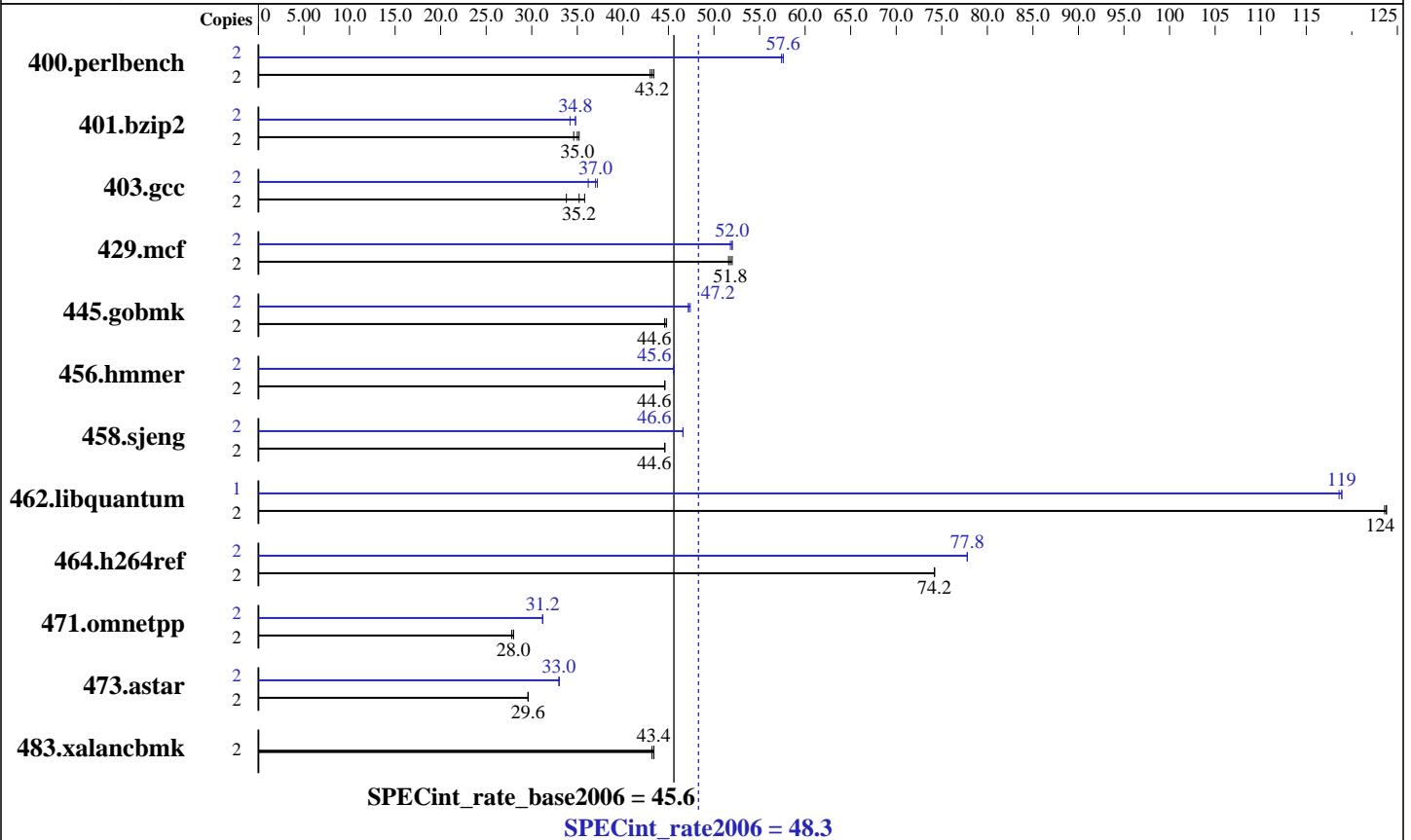
Test date: Nov-2008

Test sponsor: Dell Inc.

Hardware Availability: Jan-2009

Tested by: Dell Inc.

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Duo E8600
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 3333
 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: 6 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB DDR2-800, ECC, CL6)
 Disk Subsystem: 1 x 160 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Ultimate SP1 (64-bit)
 Compiler: Intel C++ Compiler for IA-32, Version 11.0
 Build 20080930 Package ID: w_cproc_p_11.0.061
 Microsoft Visual Studio 2008 SP1
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.1



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	2	453	43.0	450	43.4	<u>452</u>	<u>43.2</u>	2	341	57.4	339	57.6	<u>340</u>	<u>57.6</u>
401.bzip2	2	<u>551</u>	<u>35.0</u>	557	34.6	547	35.2	2	<u>556</u>	<u>34.8</u>	563	34.2	555	34.8
403.gcc	2	477	33.8	449	35.8	<u>458</u>	<u>35.2</u>	2	<u>434</u>	<u>37.0</u>	444	36.2	433	37.2
429.mcf	2	351	52.0	<u>352</u>	<u>51.8</u>	353	51.6	2	<u>351</u>	<u>52.0</u>	352	51.8	351	52.0
445.gobmk	2	470	44.6	469	44.8	<u>470</u>	<u>44.6</u>	2	<u>444</u>	<u>47.2</u>	444	47.2	442	47.4
456.hammer	2	<u>419</u>	<u>44.6</u>	419	44.6	418	44.6	2	<u>409</u>	<u>45.6</u>	409	45.6	409	45.6
458.sjeng	2	543	44.6	<u>543</u>	<u>44.6</u>	543	44.6	2	520	46.6	520	46.6	<u>520</u>	<u>46.6</u>
462.libquantum	2	335	124	<u>335</u>	<u>124</u>	335	124	1	174	119	175	119	<u>174</u>	<u>119</u>
464.h264ref	2	597	74.2	596	74.2	<u>597</u>	<u>74.2</u>	2	<u>569</u>	<u>77.8</u>	569	77.8	569	77.8
471.omnetpp	2	448	27.8	<u>447</u>	<u>28.0</u>	446	28.0	2	<u>400</u>	<u>31.2</u>	401	31.2	400	31.2
473.astar	2	<u>475</u>	<u>29.6</u>	476	29.6	475	29.6	2	426	33.0	<u>427</u>	<u>33.0</u>	427	33.0
483.xalancbmk	2	319	43.2	<u>318</u>	<u>43.4</u>	318	43.4	2	319	43.2	<u>318</u>	<u>43.4</u>	318	43.4

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

General Notes

Binaries were built on Windows Vista Ultimate (64-bit)

Base Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qstd=c99
```

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
```

Base Optimization Flags

C benchmarks:

```
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
```

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Base Optimization Flags (Continued)

C++ benchmarks:

-QxSSE4.1 -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 -Qstd=c99

C++ benchmarks:

icl -Qvc9

Peak Portability Flags

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000

403.gcc: -Qprof_gen(pass 1) -QxSSE4.1 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- /F512000000

429.mcf: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

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Peak Optimization Flags (Continued)

445.gobmk: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O2 -Qprec-div- -Qansi-alias /F512000000

456.hmmer: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias
/F512000000

458.sjeng: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll4 /F512000000

462.libquantum: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch
-Qparallel -Qpar-runtime-control -Qvec-guard-write
/F512000000

464.h264ref: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias
-Qopt-ra-region-strategy=block /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -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/dell.ic11.0.windows.flags.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.xml>



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Tested with SPEC CPU2006 v1.1.
Report generated on Tue Jul 22 21:17:44 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 9 December 2008.