



SPEC® CINT2006 Result

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Dell Inc.

SPECint®_rate2006 = 133

Dell Precision T3500 (Intel Xeon W3580, 3.33 GHz)

SPECint_rate_base2006 = 125

CPU2006 license: 55

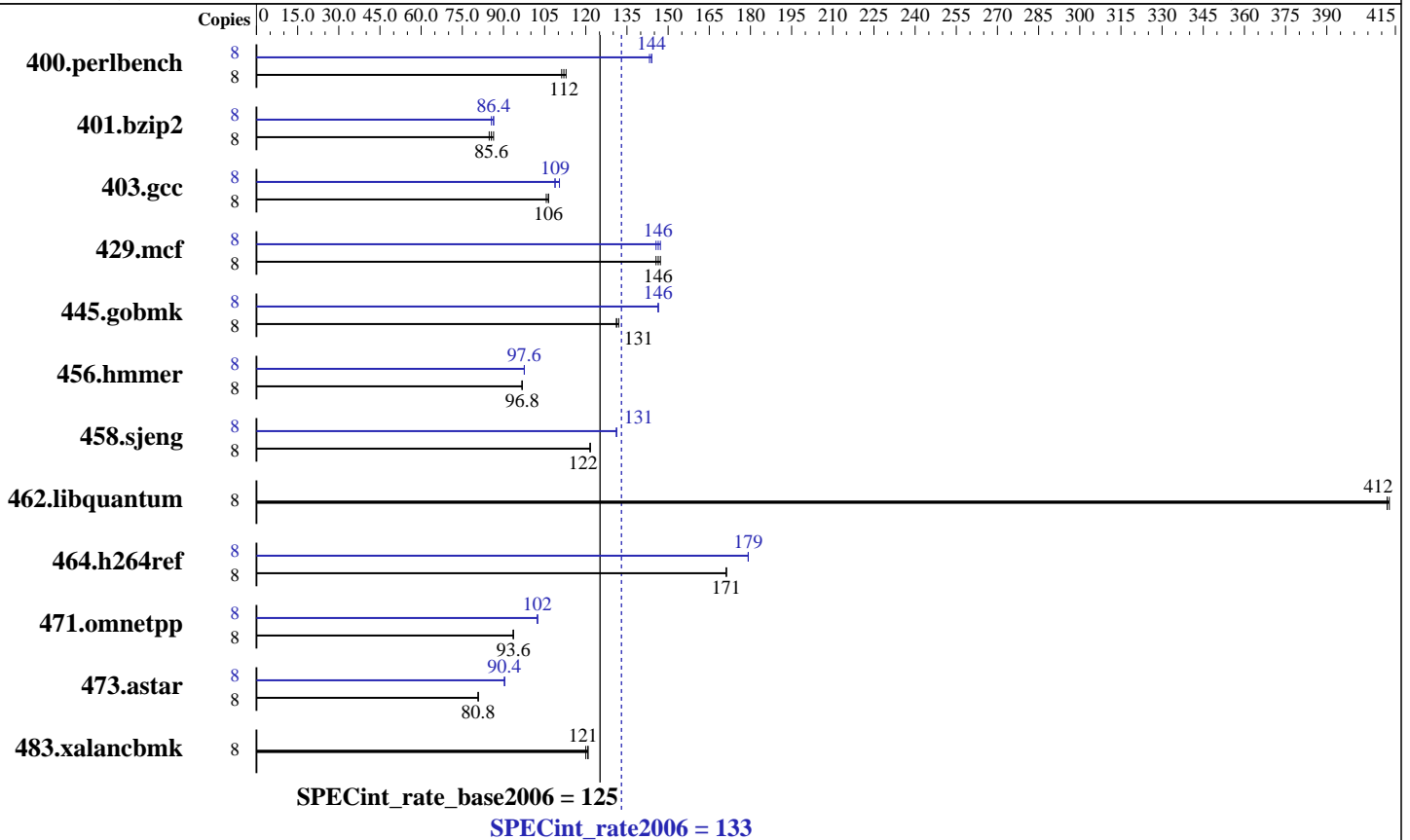
Test date: Jul-2009

Test sponsor: Dell Inc.

Hardware Availability: Aug-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon W3580
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
 CPU MHz: 3333
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (6x4 GB PC3-10600E)
 Disk Subsystem: 1 x 80GB 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 20090131 Package ID: w_cproc_p_11.0.072
 Microsoft Visual Studio 2008 SP1
 Auto Parallel: No
 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	8	695	113	701	111	698	112	8	545	143	544	144	544	144
401.bzip2	8	898	85.6	907	84.8	892	86.4	8	896	86.4	901	85.6	895	86.4
403.gcc	8	609	106	605	106	603	106	8	585	110	593	109	592	109
429.mcf	8	497	147	500	146	499	146	8	494	147	497	146	500	146
445.gobmk	8	640	131	638	131	638	132	8	573	146	574	146	574	146
456.hammer	8	770	96.8	769	96.8	769	96.8	8	765	97.6	765	97.6	766	97.6
458.sjeng	8	795	122	794	122	794	122	8	738	131	736	131	737	131
462.libquantum	8	402	412	403	412	402	413	8	402	412	403	412	402	413
464.h264ref	8	1034	171	1035	171	1035	171	8	988	179	988	179	988	179
471.omnetpp	8	534	93.6	533	93.6	533	93.6	8	489	102	489	102	489	102
473.astar	8	697	80.8	696	80.8	697	80.8	8	619	90.4	620	90.4	619	90.4
483.xalancbmk	8	458	121	458	121	460	120	8	458	121	458	121	460	120

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

Platform Notes

BIOS Settings
Hyperthreading: ENABLE

General Notes

Binaries were built on Windows Vista Business (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



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Base Optimization Flags

C benchmarks:
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
C++ benchmarks:
-QxSSE4.2 -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) -QxSSE4.2(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) -QxSSE4.2(pass 2) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
/F512000000
403.gcc: -Qprof_gen(pass 1) -QxSSE4.2 -Qprof_use(pass 2) -Qipo -O3
-Qprec-div- -Qopt-prefetch /F512000000

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Peak Optimization Flags (Continued)

429.mcf: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

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

456.hmmr: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000

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

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -QxSSE4.2(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) -QxSSE4.2(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.flags.ic11.0.win.html>

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

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



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

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