



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

SPECint®_rate2006 = 251

Dell Precision T7500 (Intel Xeon W5580, 3.20 GHz)

SPECint_rate_base2006 = 236

CPU2006 license: 55

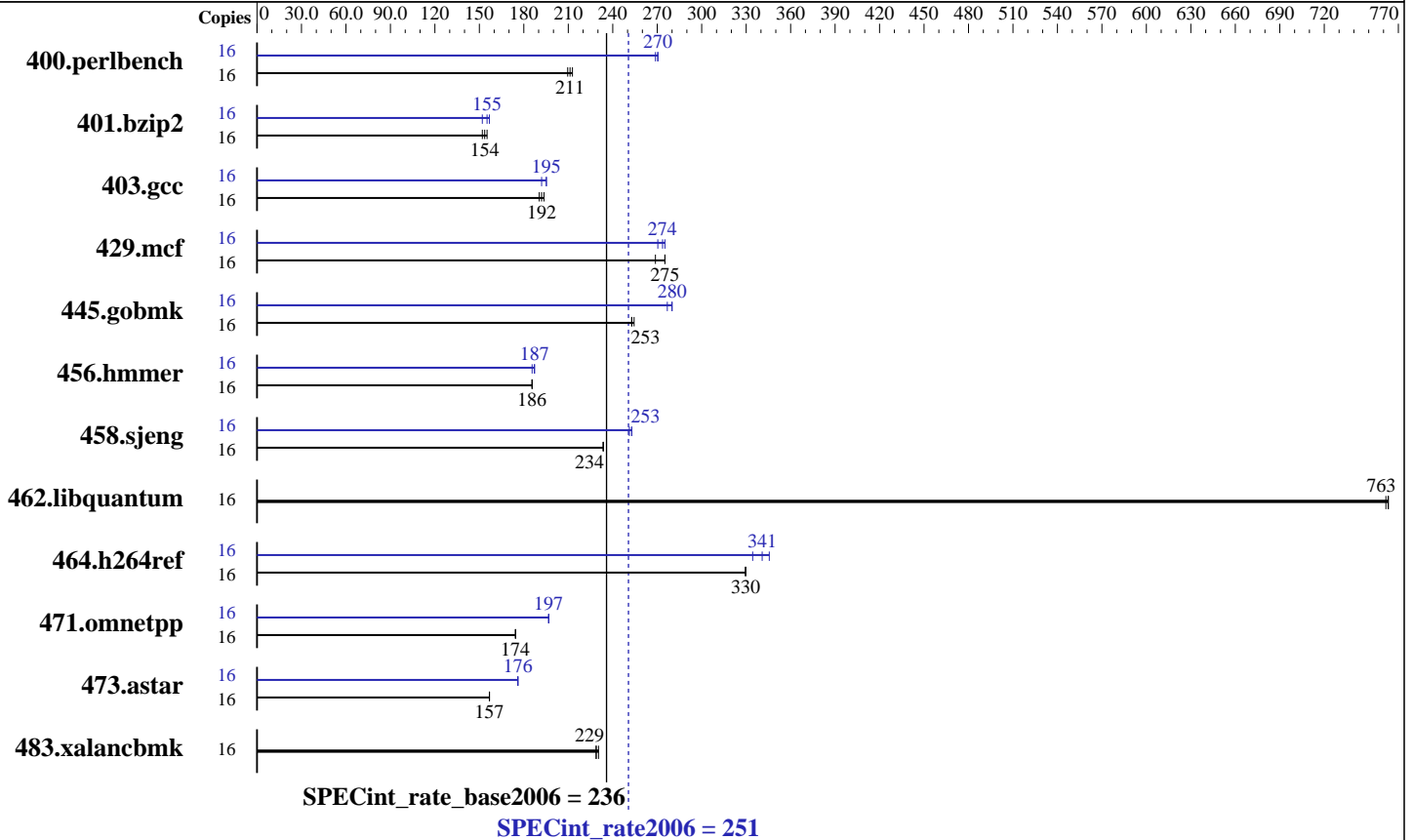
Test date: Mar-2009

Test sponsor: Dell Inc.

Hardware Availability: Apr-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon W5580
 CPU Characteristics: Intel Turbo Boost Technology up to 3.46 GHz
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 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 DDR3-1333R, ECC, CL9)
 Disk Subsystem: 1 x 146 GB SAS 15000 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Business 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	16	745	210	732	213	743	211	16	580	269	579	270	577	270
401.bzip2	16	1006	154	994	155	1012	152	16	997	155	986	157	1018	152
403.gcc	16	669	192	667	194	679	190	16	662	195	659	195	672	192
429.mcf	16	543	269	531	275	532	275	16	540	270	533	274	532	275
445.gobmk	16	661	254	665	253	663	253	16	598	280	600	280	606	277
456.hammer	16	804	186	805	186	804	186	16	799	187	803	186	799	187
458.sjeng	16	828	234	828	234	828	234	16	768	251	765	253	768	253
462.libquantum	16	435	763	435	762	435	763	16	435	763	435	762	435	763
464.h264ref	16	1074	330	1073	330	1075	330	16	1024	346	1039	341	1061	334
471.omnetpp	16	573	174	572	174	572	174	16	509	197	510	197	509	197
473.astar	16	713	157	713	157	713	157	16	636	176	636	176	636	176
483.xalancbmk	16	482	229	481	229	481	230	16	482	229	481	229	481	230

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

Submit Notes

The config file option 'submit' was used.

Platform Notes

BIOS Settings
Memory Node Interleaving set to NUMA.
Hyper-Threading Technology set to ON.

General Notes

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

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qstd=c99

C++ benchmarks:
icl -Qvc9



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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:
-QxSSE4.2 -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

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Peak Optimization Flags (Continued)

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

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.hmmer: -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- -Qunroll14 /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.ic11.0.windows.flags.20090710.html>



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

<http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.20090710.xml>

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