



SPEC® CINT2006 Result

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Fujitsu

SPECint®_rate2006 = 35.1

ESPRIMO E3520, Intel Core 2 Duo E7400

SPECint_rate_base2006 = 33.4

CPU2006 license: 19

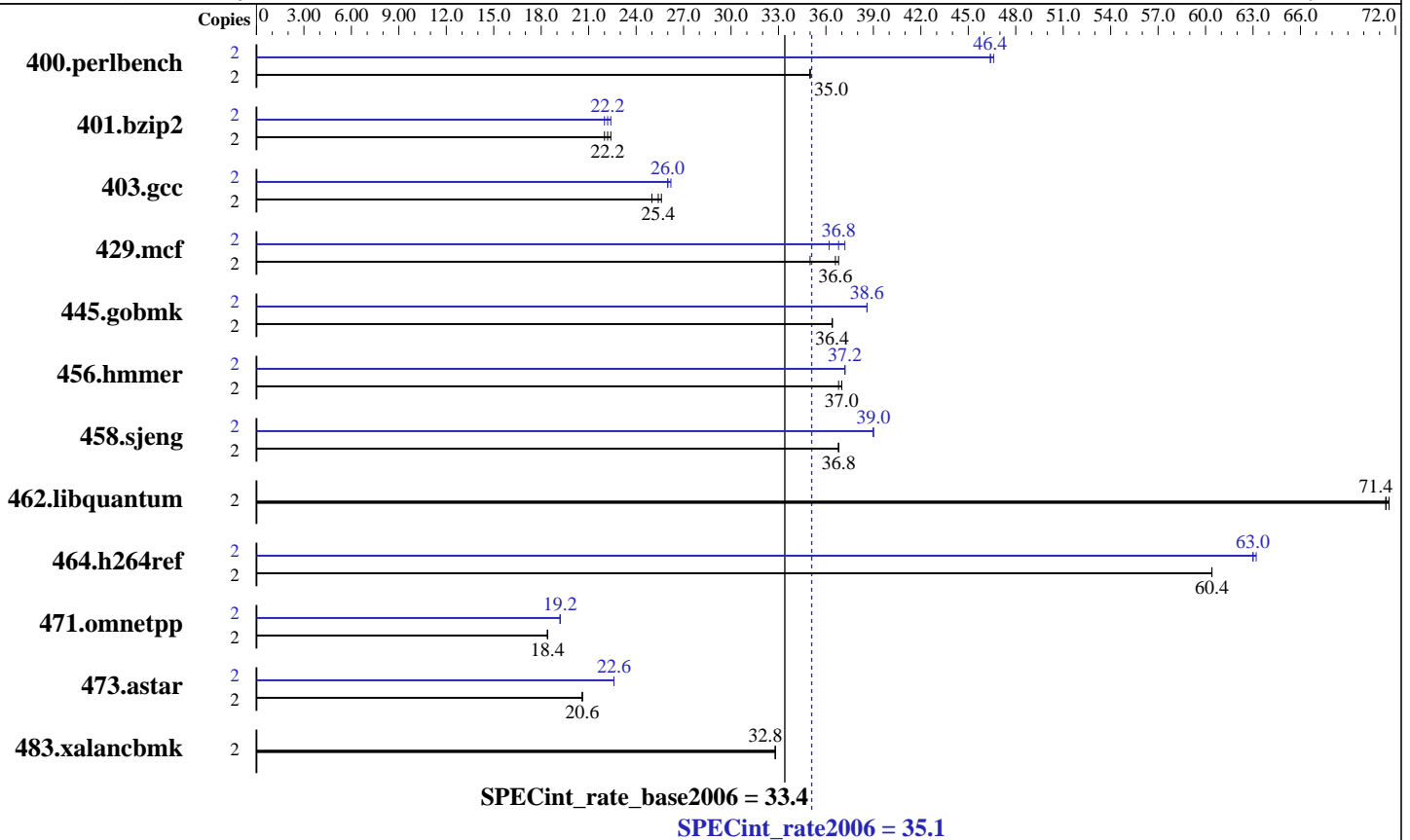
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Jul-2009

Hardware Availability: Apr-2009

Software Availability: May-2009



Hardware

CPU Name: Intel Core 2 Duo E7400
 CPU Characteristics:
 CPU MHz: 2800
 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: 2 GB (1x2 GB PC2-6400U-666-12 SDRAM)
 Disk Subsystem: 1 x 250 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista Business w/ SP1 (64-bit)
 Compiler: Intel C++ Compiler Professional 11.1 for IA32
 Build 20090511 Package ID: w_cproc_p_11.1.035
 Microsoft Visual Studio 2008 w/ SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 9.01 from <http://www.microquill.com/>



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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	558	35.0	559	35.0	558	35.0	2	420	46.6	421	46.4	421	46.4
401.bzip2	2	861	22.4	868	22.2	877	22.0	2	878	22.0	862	22.4	868	22.2
403.gcc	2	630	25.6	646	25.0	636	25.4	2	617	26.2	620	26.0	617	26.0
429.mcf	2	497	36.8	520	35.0	499	36.6	2	503	36.2	490	37.2	496	36.8
445.gobmk	2	575	36.4	575	36.4	575	36.4	2	544	38.6	544	38.6	544	38.6
456.hammer	2	506	36.8	505	37.0	505	37.0	2	501	37.2	500	37.2	501	37.2
458.sjeng	2	656	36.8	656	36.8	657	36.8	2	620	39.0	621	39.0	620	39.0
462.libquantum	2	580	71.4	581	71.4	578	71.6	2	580	71.4	581	71.4	578	71.6
464.h264ref	2	733	60.4	734	60.4	734	60.4	2	701	63.2	703	63.0	703	63.0
471.omnetpp	2	677	18.4	676	18.4	677	18.4	2	650	19.2	650	19.2	650	19.2
473.astar	2	681	20.6	680	20.6	680	20.6	2	624	22.6	623	22.6	623	22.6
483.xalancbmk	2	420	32.8	421	32.8	421	32.8	2	420	32.8	421	32.8	421	32.8

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.
'start /b /wait /affinity' command is used to bind CPU(s) to processors.

Operating System Notes

Screen Saver was disabled
Power scheme was modified to Always On; Turn off monitor: Never; Turn off hard disks: Never

Platform Notes

BIOS default settings have been used.

Base Compiler Invocation

C benchmarks:
icl -Qvc9 -Qc99

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:
-QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000
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 -Qc99
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: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -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: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias
/F512000000

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

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

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

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

458.sjeng: -QxSSE4.1(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2)
-Qipo -O3 -Qprec-div- -Qunroll14 /F512000000

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -QxSSE4.1(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: -QxSSE4.1(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.20090901.html>



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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090901.xml>

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

Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 02:11:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 1 September 2009.