



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 68.7

CELSIUS M460, Intel Core 2 Extreme QX9650

SPECint_rate_base2006 = 63.5

CPU2006 license: 22

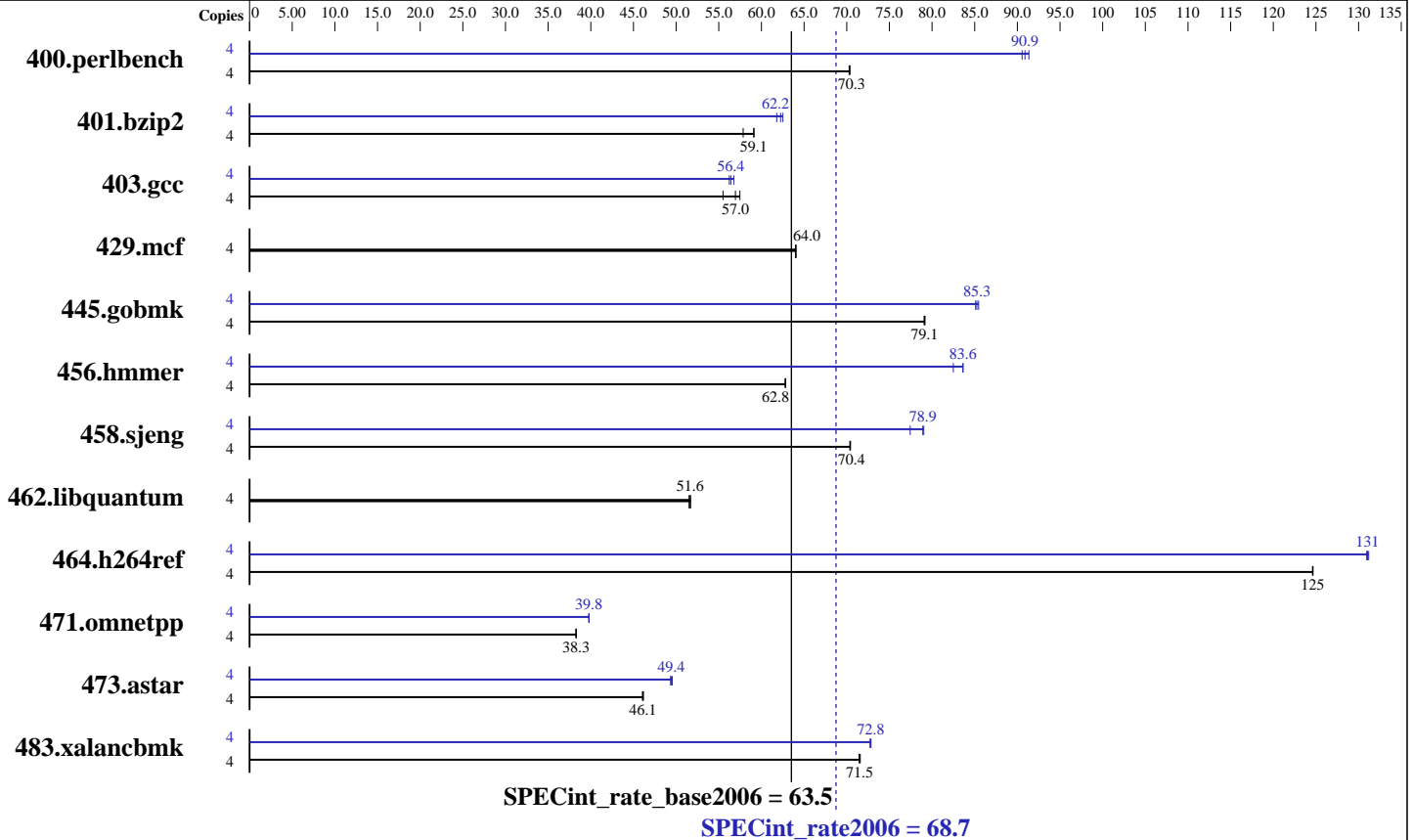
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Extreme QX9650
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB PC2-6400 CL6 SDRAM)
 Disk Subsystem: 1 x 400 GB SATA 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista64 Ultimate
 Compiler: Intel C++ Compiler for applications running on IA-32, Version 10.1, Build 20070913
 Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20070913
 Microsoft Visual Studio 2005 with SP1 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap Library Version 8.1 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	4	556	70.3	<u>556</u>	<u>70.3</u>	555	70.4	4	428	91.4	<u>430</u>	<u>90.9</u>	432	90.6
401.bzip2	4	667	57.9	653	59.1	<u>653</u>	<u>59.1</u>	4	625	61.8	617	62.5	<u>620</u>	<u>62.2</u>
403.gcc	4	560	57.5	580	55.5	<u>565</u>	<u>57.0</u>	4	573	56.2	<u>571</u>	<u>56.4</u>	567	56.8
429.mcf	4	570	64.0	<u>570</u>	<u>64.0</u>	569	64.1	4	570	64.0	<u>570</u>	<u>64.0</u>	569	64.1
445.gobmk	4	531	79.1	<u>530</u>	<u>79.1</u>	530	79.2	4	493	85.1	<u>492</u>	<u>85.3</u>	491	85.5
456.hmmmer	4	595	62.8	<u>594</u>	<u>62.8</u>	594	62.8	4	452	82.5	446	83.6	<u>446</u>	<u>83.6</u>
458.sjeng	4	687	70.4	688	70.4	<u>687</u>	<u>70.4</u>	4	625	77.4	612	79.0	<u>613</u>	<u>78.9</u>
462.libquantum	4	1609	51.5	<u>1605</u>	<u>51.6</u>	1603	51.7	4	1609	51.5	<u>1605</u>	<u>51.6</u>	1603	51.7
464.h264ref	4	710	125	710	125	<u>710</u>	<u>125</u>	4	<u>675</u>	<u>131</u>	676	131	675	131
471.omnetpp	4	<u>653</u>	<u>38.3</u>	653	38.3	653	38.3	4	<u>628</u>	<u>39.8</u>	628	39.8	629	39.8
473.astar	4	610	46.1	<u>609</u>	<u>46.1</u>	608	46.2	4	567	49.5	<u>568</u>	<u>49.4</u>	569	49.3
483.xalancbmk	4	386	71.4	386	71.6	<u>386</u>	<u>71.5</u>	4	379	72.8	379	72.7	<u>379</u>	<u>72.8</u>

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

Platform Notes

BIOS default settings have been used.

General Notes

All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hmmmer in peak were built with 64-bit Intel compiler by changing the path for include and library files.

For information about Fujitsu Siemens Computers please see:
<http://www.fujitsu-siemens.com/>

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8



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Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write -F512000000
C++ benchmarks:
-fast -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icl -Qvc8 -Qc99
401.bzip2: C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Bin\\icl.exe
-IC:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Include
-link -LIBPATH:C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Lib
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib"
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib\\amd64"
456.hmmcr: C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Bin\\icl.exe
-IC:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Include
-link -LIBPATH:C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Lib
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib"
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib\\amd64"
C++ benchmarks:
icl -Qvc8



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Peak Portability Flags

401.bzip2: -DSPEC_CPU_P64
 403.gcc: -DSPEC_CPU_WIN32
 456.hmmr: -DSPEC_CPU_P64
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
 473.astar: -DSPEC_CPU_LITTLE_ENDIAN
 483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
 -Qprefetch -F512000000 shlw32m.lib -link -FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
 -F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000

429.mcf: basepeak = yes

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

456.hmmr: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
 -Qansi-alias -Qopt-multi-version-aggressive -F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4
 -F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
 -Qansi-alias -F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
 -Qopt-ra-region-strategy=block -Qcxx_features -F512000000
 shlw32m.lib -link -FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
 -Qopt-ra-region-strategy=routine -Qcxx_features -F512000000
 shlw32m.lib -link -FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
 -Qcxx_features -F512000000 shlw32m.lib
 -link -FORCE:MULTIPLE



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Peak Other Flags

Same as Base Other Flags

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20080124.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20080124.xml

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

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