



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 76.5

CELSIUS R640, Intel Xeon E5345 processor

SPECint_rate_base2006 = 74.2

CPU2006 license: 22

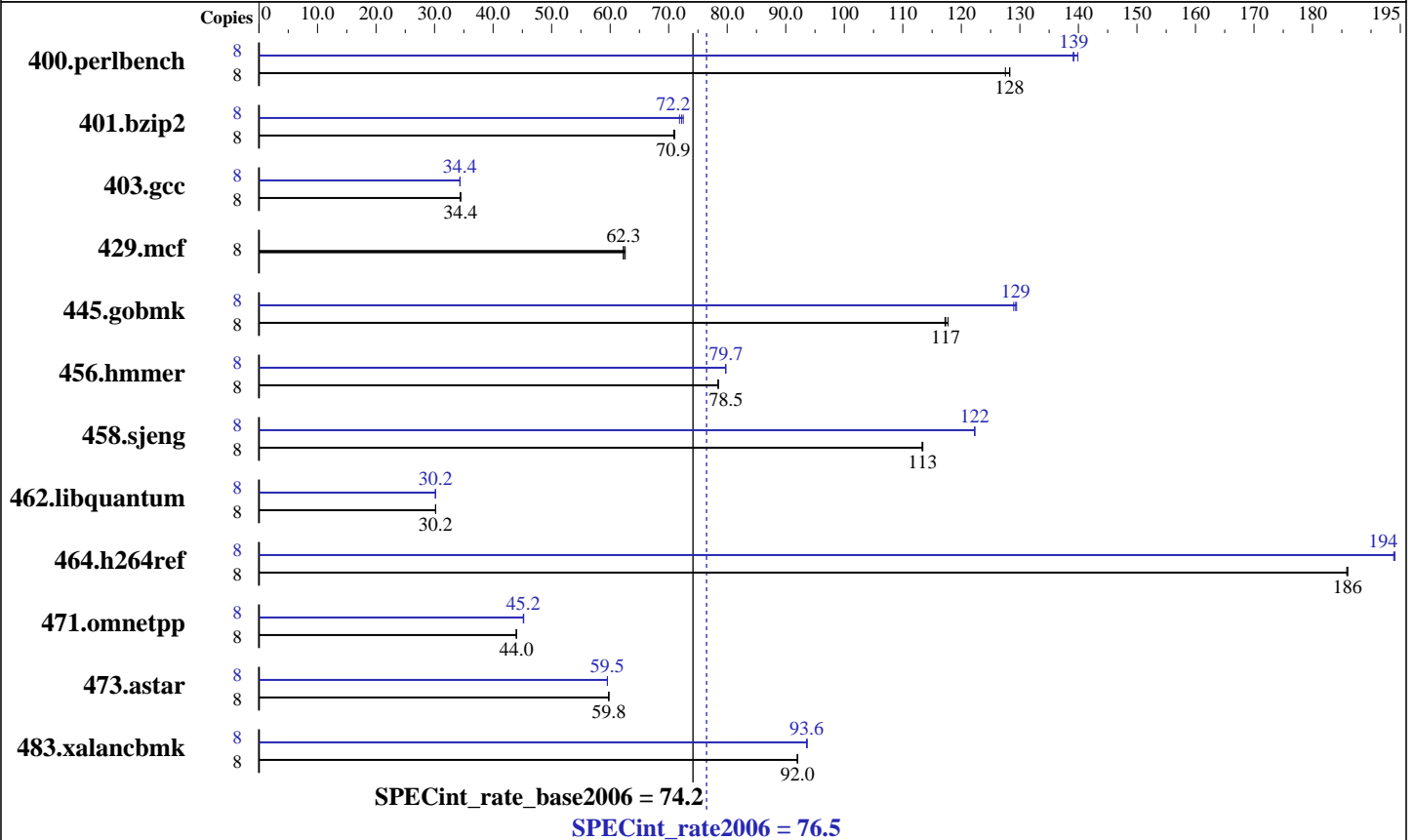
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Mar-2007

Hardware Availability: Nov-2006

Software Availability: Jan-2007



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: E5345
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: SATA II 7200 rpm
 Other Hardware: None

Software

Operating System: Windows XP, 64 bit Edition
 Compiler: Intel C++ Compiler for 32-bit appl., version 9.1
 - Build 20070109Z, Package-ID W_CC_C_9.1.034
 Microsoft Visual Studio .NET 2003 (libr. & linker)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.0



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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	613	128	609	128	609	128	8	562	139	559	140	561	139
401.bzip2	8	1089	70.9	1089	70.9	1087	71.0	8	1074	71.9	1069	72.2	1065	72.5
403.gcc	8	1868	34.5	1873	34.4	1870	34.4	8	1877	34.3	1874	34.4	1874	34.4
429.mcf	8	1166	62.6	1172	62.3	1171	62.3	8	1166	62.6	1172	62.3	1171	62.3
445.gobmk	8	715	117	716	117	713	118	8	649	129	648	129	651	129
456.hammer	8	951	78.4	951	78.5	951	78.5	8	936	79.7	936	79.7	936	79.8
458.sjeng	8	854	113	854	113	853	113	8	791	122	792	122	792	122
462.libquantum	8	5493	30.2	5492	30.2	5492	30.2	8	5496	30.2	5496	30.2	5496	30.2
464.h264ref	8	953	186	952	186	952	186	8	912	194	913	194	912	194
471.omnetpp	8	1138	43.9	1137	44.0	1136	44.0	8	1105	45.2	1106	45.2	1107	45.2
473.astar	8	940	59.8	940	59.8	939	59.8	8	943	59.5	943	59.5	944	59.5
483.xalancbmk	8	600	91.9	600	92.0	600	92.0	8	590	93.6	589	93.7	590	93.6

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, except:
High Bandwidth Option Enabled
(To Optimize throughput of High Bandwidth FSB applications
on multiprocessor configurations)

General Notes

'start /b /wait /affinity' command is used to bind CPU(s) to processors.
The Windows command "start /b /wait /affinity <hex_affinity_mask> application"
starts the specified application without creating a new window (/b)
and waits for its termination (/wait). Only the processors specified
in <hex_affinity_mask> are allowed to execute the application.
See the Windows documentation for the description of other parameters
of the start command.

For information about Fujitsu Siemens Computers in your country please see:
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Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

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Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Base Optimization Flags

C benchmarks:

-fast -F512000000 sh1W32M.lib -link -FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx-features -F512000000 sh1W32M.lib -link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32



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Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
shlW32M.lib -link -FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F512000000 shlW32M.lib -link -FORCE:MULTIPLE

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/CPU2006_flags.20090714.19.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.19.xml



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