



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

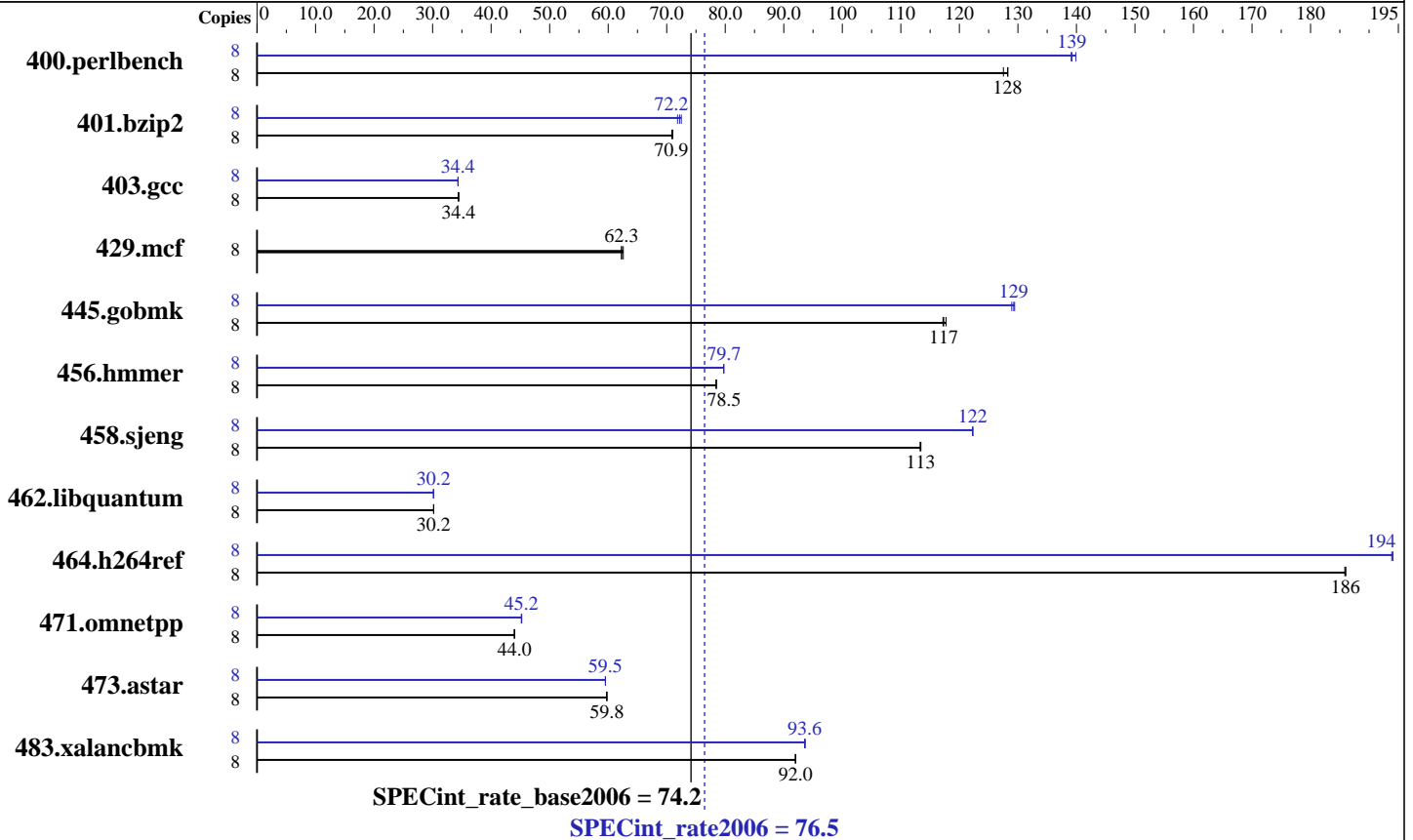
Test sponsor: Fujitsu Siemens Computers

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.

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Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

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Compiler Invocation (Continued)

C++ benchmarks:

ic1 -Qvc7.1

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

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000
sh1W32M.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 sh1W32M.lib -link -FORCE:MULTIPLE



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

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