



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®_rate2006 = 51.9

CELSIUS R650, Intel Xeon E5205, 1.87 GHz

SPECint_rate_base2006 = 44.7

CPU2006 license: 22

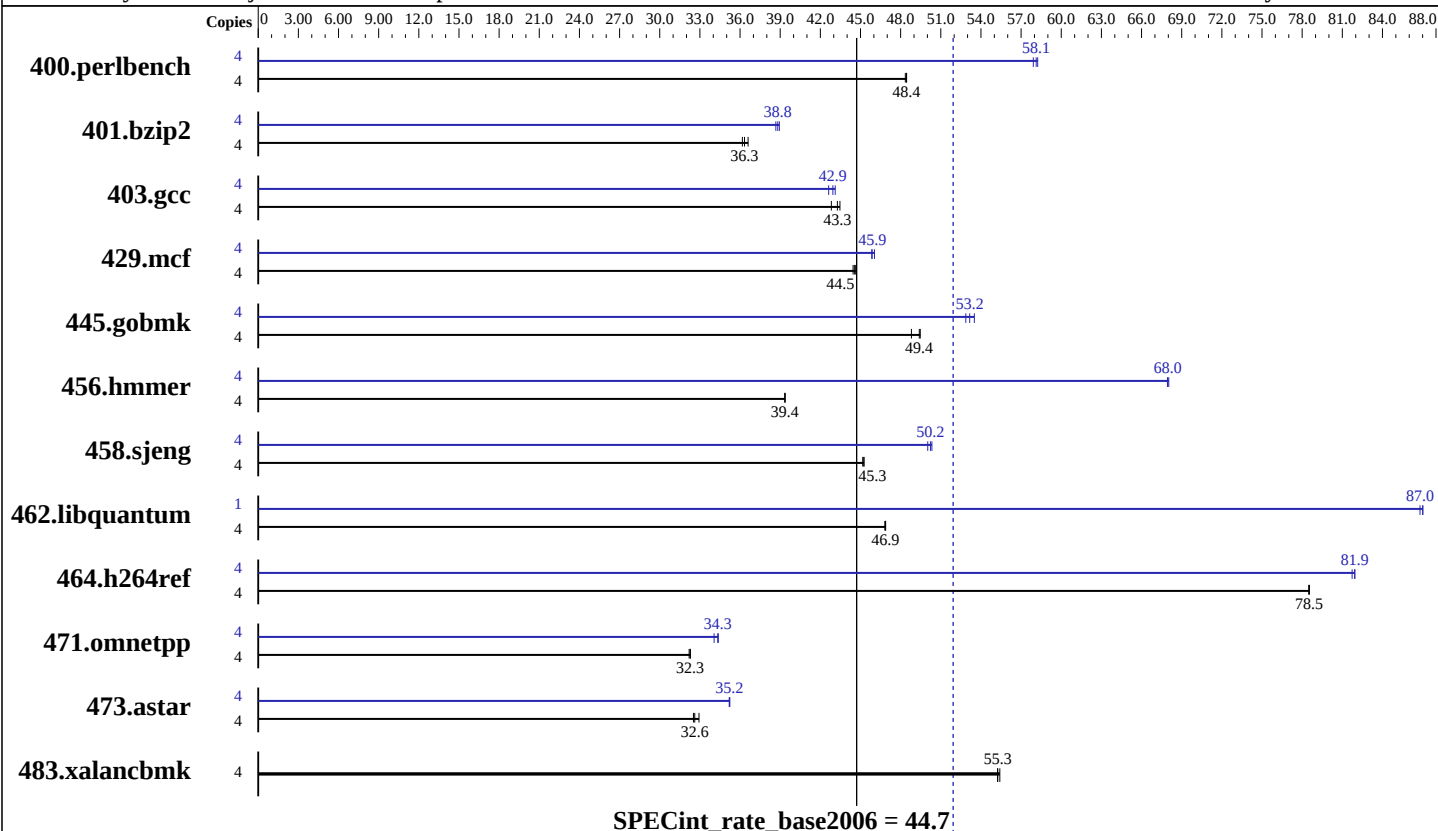
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Feb-2008

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E5205
CPU Characteristics: 1067 MHz system bus
CPU MHz: 1867
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 6 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1 x SATA II, 400 GB, 7200 rpm
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ Compiler for Linux32 and Linux64, Version 10.1, Build 20070913
Auto Parallel: Yes
File System: ext3
System State: Multi-User, Run Level 3
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap Library, Version 8.1
binutils-2.17.50.0.5-0.1.x86_64



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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	<u>807</u>	<u>48.4</u>	807	48.4	808	48.3	4	<u>672</u>	<u>58.1</u>	671	58.2	675	57.9
401.bzip2	4	1067	36.2	1055	36.6	<u>1062</u>	<u>36.3</u>	4	<u>994</u>	<u>38.8</u>	998	38.7	991	38.9
403.gcc	4	741	43.5	<u>744</u>	<u>43.3</u>	752	42.8	4	<u>750</u>	<u>42.9</u>	755	42.6	747	43.1
429.mcf	4	<u>819</u>	<u>44.5</u>	817	44.6	821	44.4	4	<u>795</u>	<u>45.9</u>	792	46.0	796	45.8
445.gobmk	4	848	49.5	860	48.8	<u>849</u>	<u>49.4</u>	4	784	53.5	794	52.9	<u>789</u>	<u>53.2</u>
456.hmmer	4	948	39.4	948	39.4	<u>948</u>	<u>39.4</u>	4	<u>549</u>	<u>68.0</u>	549	67.9	549	68.0
458.sjeng	4	<u>1070</u>	<u>45.3</u>	1072	45.2	1069	45.3	4	968	50.0	962	50.3	<u>964</u>	<u>50.2</u>
462.libquantum	4	1770	46.8	1768	46.9	<u>1769</u>	<u>46.9</u>	1	<u>238</u>	<u>87.0</u>	238	87.0	239	86.8
464.h264ref	4	1127	78.5	1128	78.5	<u>1127</u>	<u>78.5</u>	4	<u>1080</u>	<u>81.9</u>	1083	81.7	1080	81.9
471.omnetpp	4	<u>775</u>	<u>32.3</u>	776	32.2	774	32.3	4	<u>728</u>	<u>34.3</u>	734	34.1	727	34.4
473.astar	4	<u>861</u>	<u>32.6</u>	853	32.9	864	32.5	4	798	35.2	<u>797</u>	<u>35.2</u>	797	35.2
483.xalancbmk	4	500	55.2	498	55.4	<u>499</u>	<u>55.3</u>	4	500	55.2	498	55.4	<u>499</u>	<u>55.3</u>

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
OMP_NUM_THREADS set to number of cores (default)

Platform Notes

BIOS configuration:
Enhanced Speedstep Technology = Disable
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable
SnoopFilter = Enable

General Notes

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

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<http://www.fujitsu-siemens.com/countries>

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LITTLE_ENDIAN
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

C++ benchmarks:
icpc



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Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LITTLE_ENDIAN
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
403.gcc: -fast -inline-calloc -opt-malloc-options=3
429.mcf: -fast -prefetch
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias
456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control
464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-wl, -z, muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-wl, -z, muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap
483.xalancbmk: basepeak = yes



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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/Intel-ic10-ia32-intel64-linux-flags.20080305.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20080305.xml>

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Tested with SPEC CPU2006 v1.0.

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