



SPEC® CINT2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon E5440 processor

SPECint_rate2006 = 125

SPECint_rate_base2006 = 106

CPU2006 license: 22

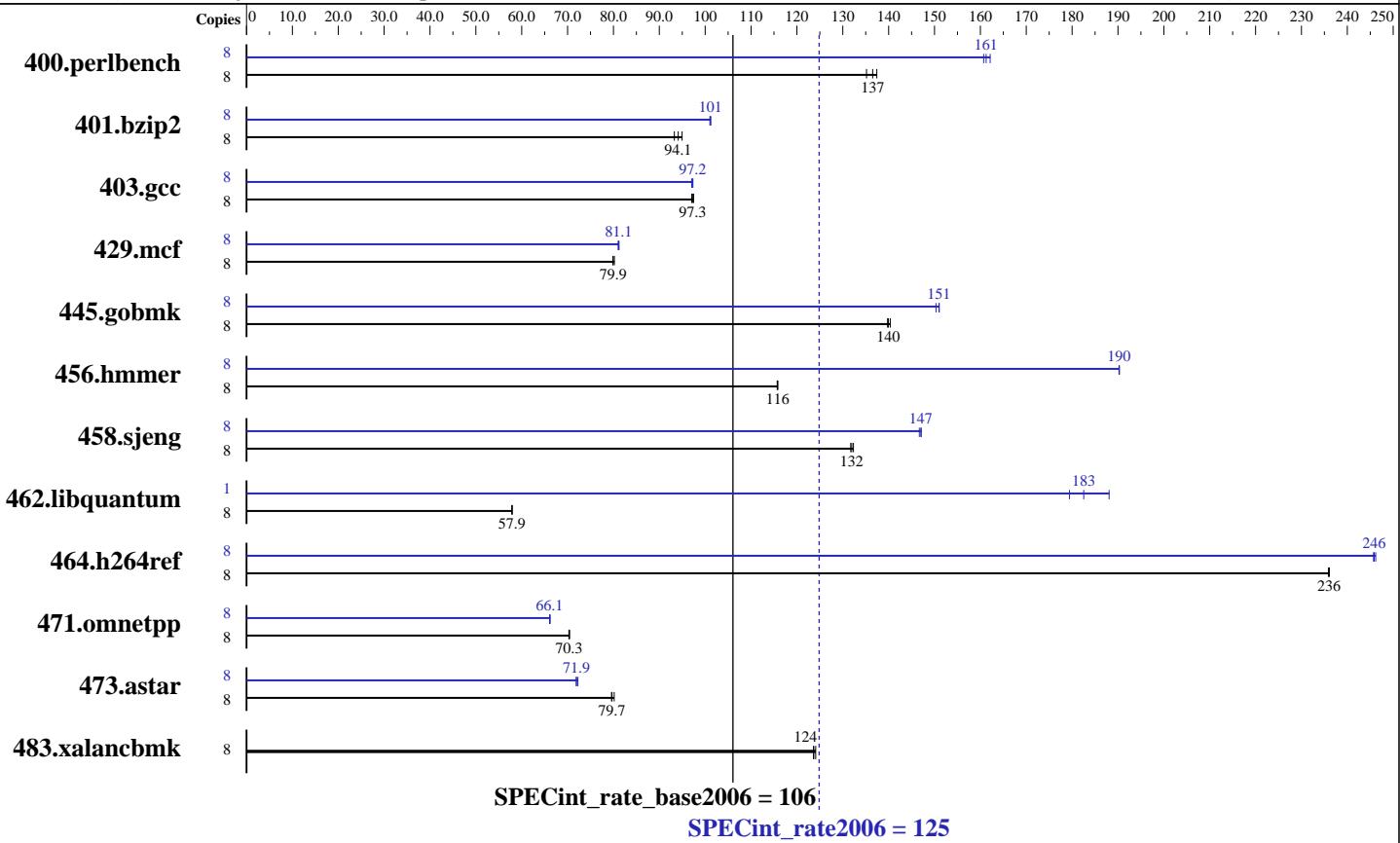
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



Hardware

CPU Name:	Intel Xeon E5440
CPU Characteristics:	
CPU MHz:	2833
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem:	1 x 400 GB SATA II 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



SPEC CINT2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon E5440 processor

SPECint_rate2006 = 125

SPECint_rate_base2006 = 106

CPU2006 license: 22

Test date: Dec-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	569	137	578	135	573	137	8	482	162	486	161	485	161
401.bzip2	8	813	95.0	828	93.3	820	94.1	8	763	101	763	101	764	101
403.gcc	8	664	97.1	662	97.3	661	97.5	8	662	97.2	664	97.0	662	97.3
429.mcf	8	913	79.9	913	79.9	910	80.2	8	900	81.0	898	81.2	899	81.1
445.gobmk	8	598	140	600	140	600	140	8	556	151	556	151	558	150
456.hammer	8	645	116	644	116	645	116	8	392	190	392	190	392	190
458.sjeng	8	732	132	735	132	734	132	8	660	147	658	147	658	147
462.libquantum	8	2864	57.9	2863	57.9	2864	57.9	1	110	188	114	183	115	179
464.h264ref	8	750	236	751	236	750	236	8	720	246	719	246	720	246
471.omnetpp	8	710	70.4	711	70.3	711	70.3	8	757	66.1	755	66.2	757	66.1
473.astar	8	706	79.6	701	80.2	705	79.7	8	781	71.9	781	71.9	777	72.2
483.xalancbmk	8	446	124	445	124	446	124	8	446	124	445	124	446	124

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 = Disable, Adjacent Sector Prefetch = Disable

SnoopFilter = Enable

General Notes

All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hammer 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:
icc

Continued on next page



SPEC CINT2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon E5440 processor

SPECint_rate2006 = 125

SPECint_rate_base2006 = 106

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007

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.hmmr: /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



SPEC CINT2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon E5440 processor

SPECint_rate2006 = 125

SPECint_rate_base2006 = 106

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007

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 -unroll12 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll14 -O0 -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 -unroll12
-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

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine

483.xalancbmk: basepeak = yes



SPEC CINT2006 Result

Copyright ©2007 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

CELSIUS R650, Intel Xeon E5440 processor

SPECint_rate2006 = 125

SPECint_rate_base2006 = 106

CPU2006 license: 22

Test date: Dec-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007

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.20080124.00.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.20080124.00.xml>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.

Report generated on Thu Jan 24 17:44:19 2008 by SPEC CPU2006 PS/PDF formatter v5614.