



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECint®2006 = 28.8

CELSIUS R550, Intel Xeon X5470 processor

SPECint_base2006 = 25.2

CPU2006 license: 22

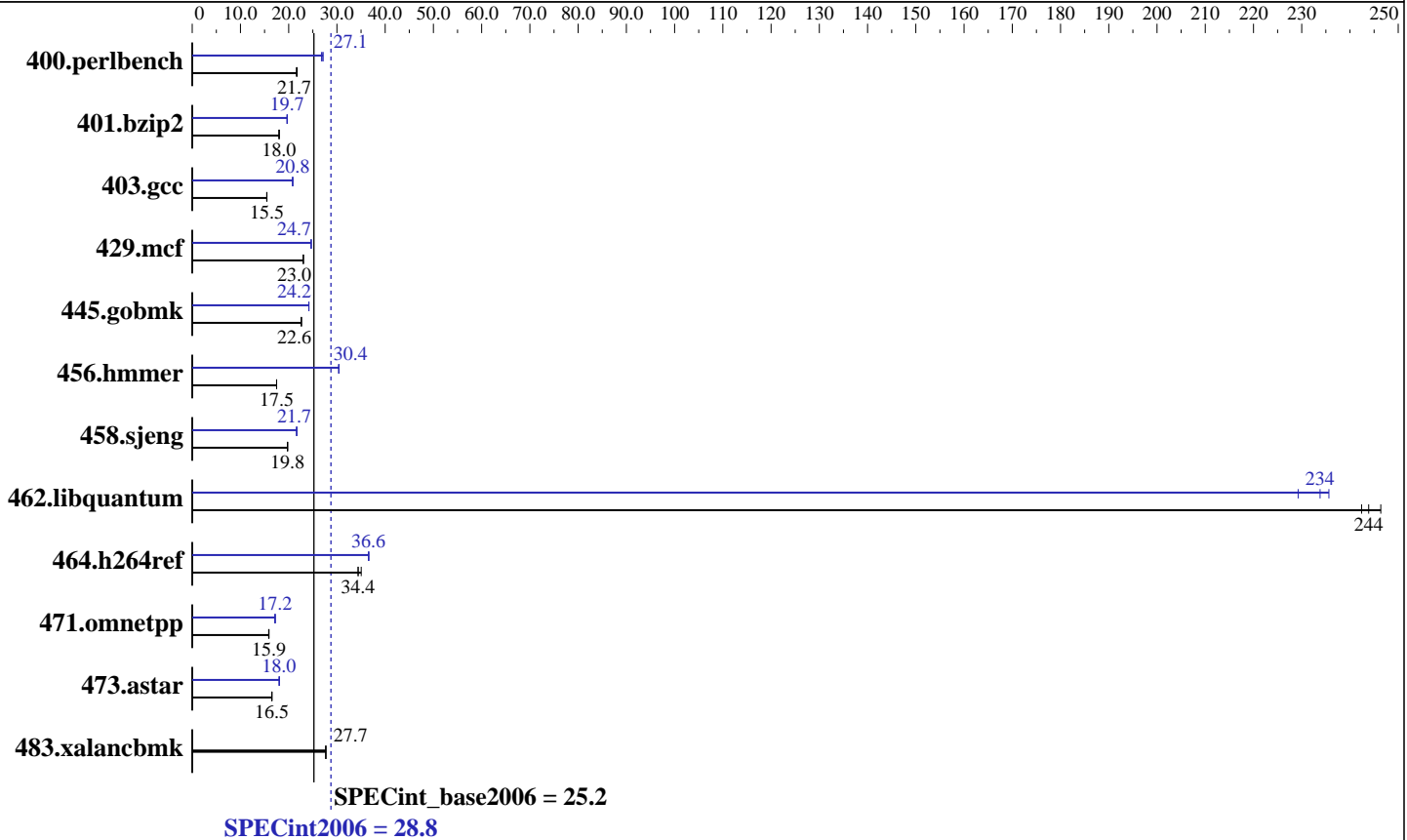
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Jun-2008



Hardware

CPU Name: Intel Xeon X5470
 CPU Characteristics: 3333
 CPU MHz: 3333
 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 DDR2 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 20080602
 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 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECint2006 = 28.8

CELSIUS R550, Intel Xeon X5470 processor

SPECint_base2006 = 25.2

CPU2006 license: 22

Test date: Aug-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Sep-2008

Tested by: Fujitsu Siemens Computers

Software Availability: Jun-2008

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>451</u>	<u>21.7</u>	449	21.8	452	21.6	360	27.1	<u>361</u>	<u>27.1</u>	365	26.8
401.bzip2	534	18.1	<u>536</u>	<u>18.0</u>	537	18.0	490	19.7	<u>490</u>	<u>19.7</u>	491	19.7
403.gcc	520	15.5	<u>520</u>	<u>15.5</u>	521	15.4	<u>387</u>	<u>20.8</u>	387	20.8	386	20.9
429.mcf	396	23.0	<u>396</u>	<u>23.0</u>	396	23.0	370	24.7	370	24.6	<u>370</u>	<u>24.7</u>
445.gobmk	464	22.6	<u>464</u>	<u>22.6</u>	463	22.6	434	24.2	434	24.2	<u>434</u>	<u>24.2</u>
456.hammer	533	17.5	<u>533</u>	<u>17.5</u>	534	17.5	<u>307</u>	<u>30.4</u>	307	30.4	307	30.4
458.sjeng	613	19.7	<u>612</u>	<u>19.8</u>	611	19.8	<u>559</u>	<u>21.7</u>	560	21.6	558	21.7
462.libquantum	85.5	242	<u>85.0</u>	<u>244</u>	84.1	246	87.9	236	90.4	229	<u>88.6</u>	<u>234</u>
464.h264ref	<u>643</u>	<u>34.4</u>	644	34.4	632	35.0	606	36.5	604	36.6	<u>605</u>	<u>36.6</u>
471.omnetpp	394	15.8	393	15.9	<u>393</u>	<u>15.9</u>	<u>363</u>	<u>17.2</u>	363	17.2	365	17.1
473.astar	425	16.5	424	16.5	<u>425</u>	<u>16.5</u>	<u>389</u>	<u>18.0</u>	390	18.0	388	18.1
483.xalancbmk	249	27.7	<u>249</u>	<u>27.7</u>	249	27.7	249	27.7	<u>249</u>	<u>27.7</u>	249	27.7

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
C1 Enhanced Mode = Disable
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable
SnoopFilter = Disable

General Notes

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

Base Compiler Invocation

C benchmarks:

```
/opt/intel/cc/10.1.017/bin/icc -L/opt/intel/cc/10.1.017/lib  
-I/opt/intel/cc/10.1.017/include
```

C++ benchmarks:

```
/opt/intel/cc/10.1.017/bin/icpc -L/opt/intel/cc/10.1.017/lib  
-I/opt/intel/cc/10.1.017/include
```



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECint2006 = 28.8

CELSIUS R550, Intel Xeon X5470 processor

SPECint_base2006 = 25.2

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Jun-2008

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -vec-guard-write -parallel -par-runtime-control

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

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
/opt/intel/cc/10.1.017/bin/icc -L/opt/intel/cc/10.1.017/lib
-I/opt/intel/cc/10.1.017/include

401.bzip2: icc
456.hmmer: icc

C++ benchmarks:
/opt/intel/cc/10.1.017/bin/icpc -L/opt/intel/cc/10.1.017/lib
-I/opt/intel/cc/10.1.017/include

Peak Portability Flags

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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECint2006 = 28.8

CELSIUS R550, Intel Xeon X5470 processor

SPECint_base2006 = 25.2

CPU2006 license: 22

Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Aug-2008

Hardware Availability: Sep-2008

Software Availability: Jun-2008

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
-auto-ilp32

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.hmmr: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
-auto-ilp32

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

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Fujitsu Siemens Computers

SPECint2006 = 28.8

CELSIUS R550, Intel Xeon X5470 processor

SPECint_base2006 = 25.2

CPU2006 license: 22

Test date: Aug-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Sep-2008

Tested by: Fujitsu Siemens Computers

Software Availability: Jun-2008

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.20090714.html>

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

<http://www.spec.org/cpu2006/flags/flags-ic101-linux-intel64.20090714.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 v1.1.
Report generated on Tue Jul 22 19:41:30 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 September 2008.