



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECint® rate2006 = 111

IBM System x3250 M3 (Intel Xeon X3450)

SPECint_rate_base2006 = 103

CPU2006 license: 11

Test sponsor: IBM Corporation

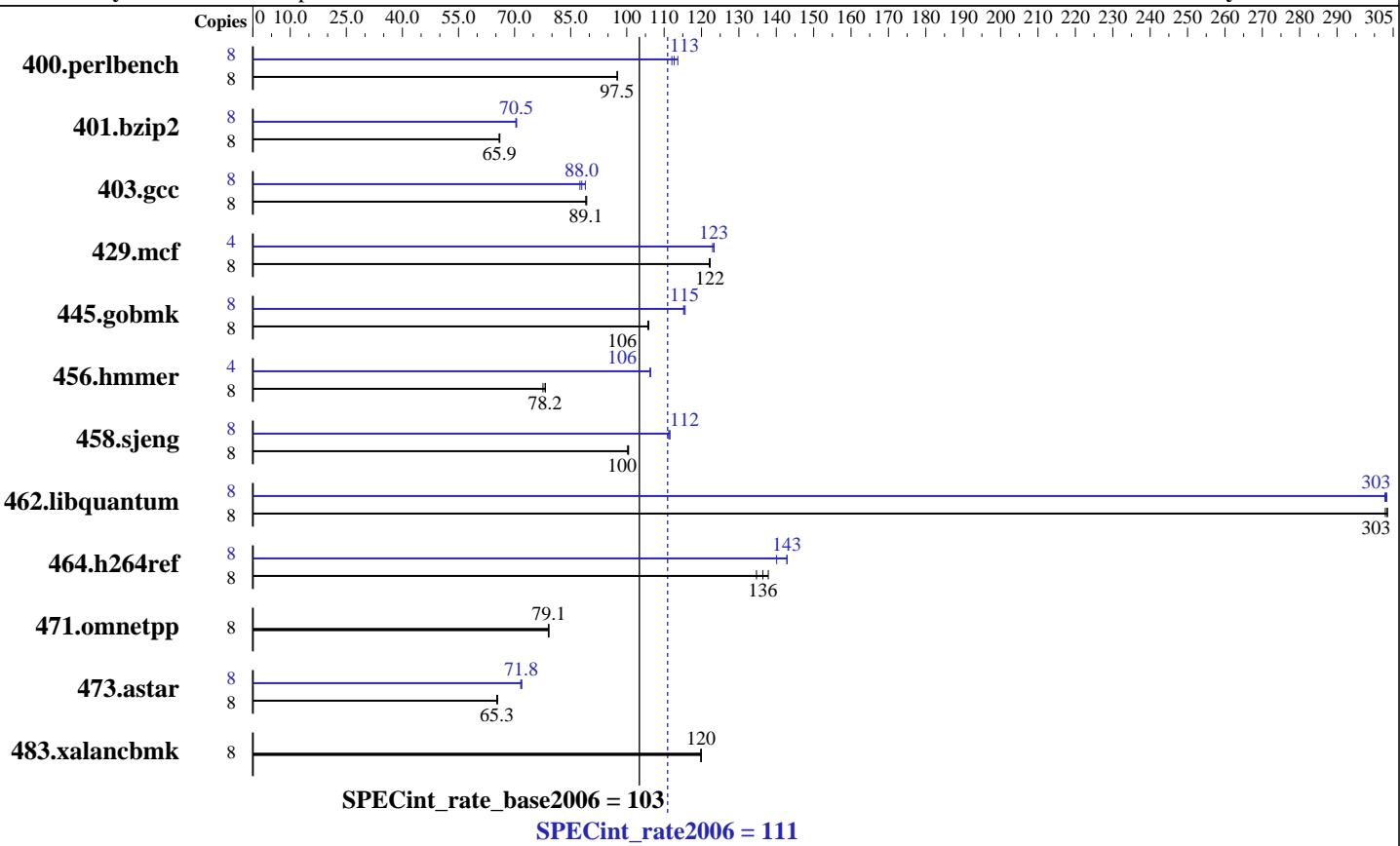
Tested by: IBM Corporation

Test date:

Oct-2009

Hardware Availability: Oct-2009

Software Availability: Mar-2009



Hardware		Software	
CPU Name:	Intel Xeon X3450	Operating System:	SuSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
CPU Characteristics:	Intel Turbo Boost Technology up to 3.20 GHz	Compiler:	Intel C++ Compiler Professional 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080
CPU MHz:	2667	Auto Parallel:	No
FPU:	Integrated	File System:	ext3
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core	System State:	Run level 3 (multi-user)
CPU(s) orderable:	1 chip	Base Pointers:	32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software:	Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502
L3 Cache:	8 MB I+D on chip per chip		
Other Cache:	None		
Memory:	16 GB (4 x 4 GB PC3-10600R)		
Disk Subsystem:	1 x 73 GB SAS, 15000RPM		
Other Hardware:	None		



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

IBM System x3250 M3 (Intel Xeon X3450)

SPECint_rate2006 = 111

SPECint_rate_base2006 = 103

CPU2006 license: 11

Test date: Oct-2009

Test sponsor: IBM Corporation

Hardware Availability: Oct-2009

Tested by: IBM Corporation

Software Availability: Mar-2009

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	802	97.4	802	97.5	802	97.5	8	694	113	697	112	688	114
401.bzip2	8	1171	65.9	1172	65.9	1169	66.1	8	1095	70.5	1095	70.5	1098	70.3
403.gcc	8	723	89.1	723	89.1	721	89.3	8	724	88.9	736	87.5	732	88.0
429.mcf	8	597	122	596	122	598	122	4	297	123	296	123	296	123
445.gobmk	8	794	106	793	106	793	106	8	728	115	726	116	727	115
456.hmmer	8	962	77.6	954	78.3	955	78.2	4	351	106	351	106	351	106
458.sjeng	8	963	100	964	100	966	100	8	868	112	870	111	868	112
462.libquantum	8	546	303	547	303	546	303	8	547	303	547	303	547	303
464.h264ref	8	1298	136	1314	135	1284	138	8	1239	143	1239	143	1264	140
471.omnetpp	8	632	79.1	632	79.2	633	79.0	8	632	79.1	632	79.2	633	79.0
473.astar	8	858	65.5	860	65.3	861	65.3	8	781	71.9	783	71.8	784	71.6
483.xalancbmk	8	460	120	461	120	460	120	8	460	120	461	120	460	120

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

Submit Notes

The config file option 'submit' was used.
numactl was used to bind copies to the cores

General Notes

'ulimit -s unlimited' was used to set the stack size to unlimited prior to run
CPU C-States Enable and Adjacent Sector Prefetch Enable
Turbo Mode Enable

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

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



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECint_rate2006 = 111

IBM System x3250 M3 (Intel Xeon X3450)

SPECint_rate_base2006 = 103

CPU2006 license: 11

Test date: Oct-2009

Test sponsor: IBM Corporation

Hardware Availability: Oct-2009

Tested by: IBM Corporation

Software Availability: Mar-2009

Base Optimization Flags

C benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc  
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/spec/cpu2006.1.1/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/Compiler/11.0/080/bin/intel64/icc
```

```
456.hmmr: /opt/intel/Compiler/11.0/080/bin/intel64/icc
```

```
458.sjeng: /opt/intel/Compiler/11.0/080/bin/intel64/icc
```

C++ benchmarks (except as noted below):

```
icpc
```

```
473.astar: /opt/intel/Compiler/11.0/080/bin/intel64/icpc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
```

```
401.bzip2: -DSPEC_CPU_LP64
```

```
456.hmmr: -DSPEC_CPU_LP64
```

```
458.sjeng: -DSPEC_CPU_LP64
```

```
462.libquantum: -DSPEC_CPU_LINUX
```

```
473.astar: -DSPEC_CPU_LP64
```

```
483.xalancbmk: -DSPEC_CPU_LINUX
```



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECint_rate2006 = 111

IBM System x3250 M3 (Intel Xeon X3450)

SPECint_rate_base2006 = 103

CPU2006 license: 11

Test date: Oct-2009

Test sponsor: IBM Corporation

Hardware Availability: Oct-2009

Tested by: IBM Corporation

Software Availability: Mar-2009

Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -ansi-alias -opt-prefetch

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3

429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias

456.hmmr: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static
-opt-malloc-options=3 -opt-prefetch

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-ansi-alias -opt-ra-region-strategy=routine -auto-ilp32
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap64

483.xalancbmk: basepeak = yes



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

IBM Corporation

SPECint_rate2006 = 111

IBM System x3250 M3 (Intel Xeon X3450)

SPECint_rate_base2006 = 103

CPU2006 license: 11

Test date: Oct-2009

Test sponsor: IBM Corporation

Hardware Availability: Oct-2009

Tested by: IBM Corporation

Software Availability: Mar-2009

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/Intel-ic11.0-int-linux64-revA.20091028.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20091028.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 Wed Jul 23 05:01:54 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 23 November 2009.