



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

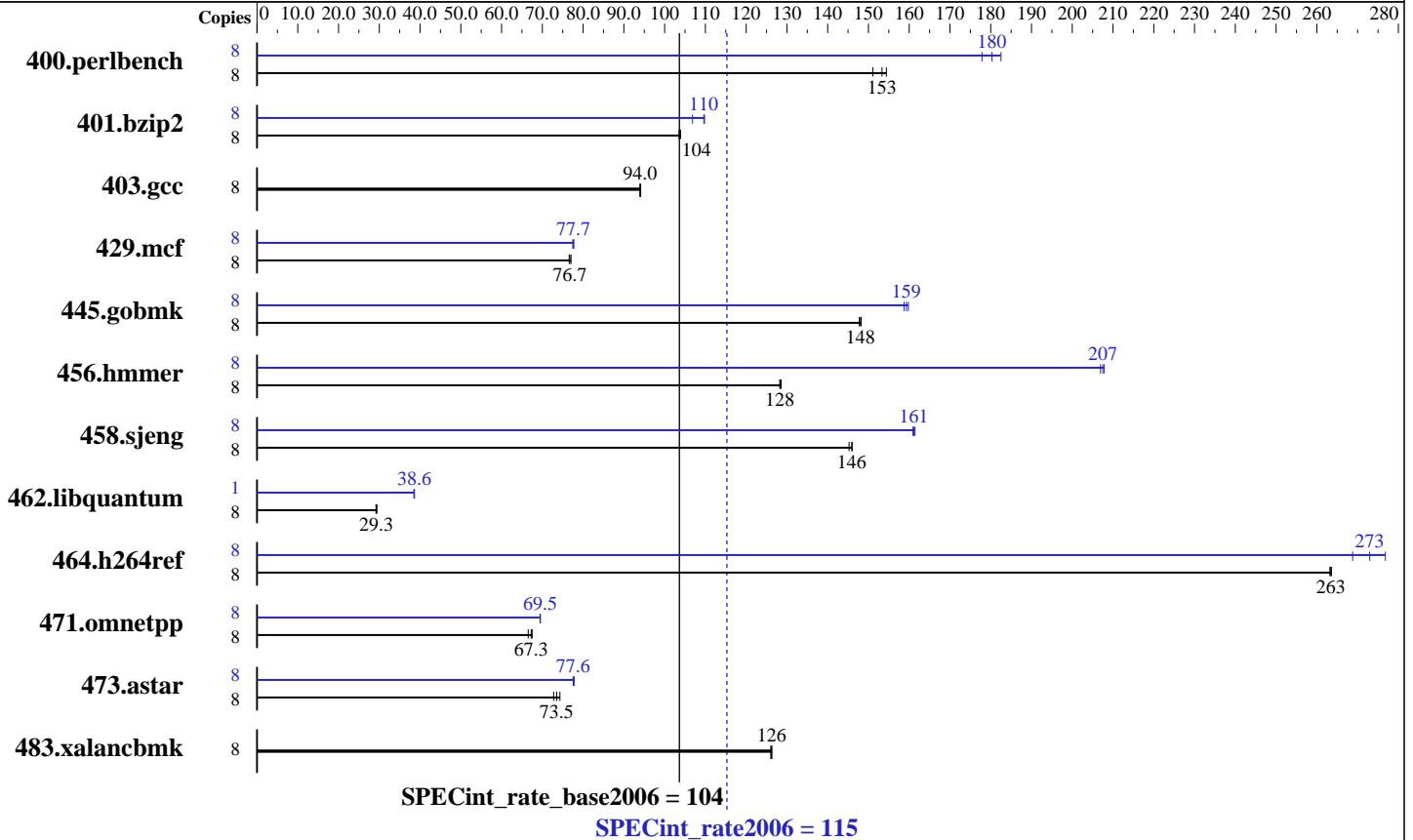
SPECint®_rate2006 = 115

Servidor Itautec LX211 (Intel Xeon X5460)

SPECint_rate_base2006 = 104

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Jan-2008



Hardware

CPU Name: Intel Xeon X5460
 CPU Characteristics:
 CPU MHz: 3160
 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: 12 GB (6 * 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)
 Disk Subsystem: 1 x SCSI, 73GB, 10000 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 Linux version 10.1 Build 20080112 Package ID: l_cc_p_10.1.012
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run Level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Binutils 2.17.10.50
 MicroQuill SmartHeap V8.1



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 115

Servidor Itaotec LX211 (Intel Xeon X5460)

SPECint_rate_base2006 = 104

CPU2006 license: 9001
Test sponsor: Itaotec
Tested by: Itaotec

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Jan-2008

Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	517	151	506	154	<u>510</u>	<u>153</u>	8	439	178	428	183	<u>434</u>	<u>180</u>
401.bzip2	8	746	104	743	104	<u>745</u>	<u>104</u>	8	723	107	703	110	<u>704</u>	<u>110</u>
403.gcc	8	685	94.0	684	94.1	<u>685</u>	<u>94.0</u>	8	685	94.0	684	94.1	<u>685</u>	<u>94.0</u>
429.mcf	8	953	76.6	<u>951</u>	<u>76.7</u>	947	77.0	8	939	77.7	<u>940</u>	<u>77.7</u>	942	77.5
445.gobmk	8	566	148	<u>567</u>	<u>148</u>	568	148	8	529	159	<u>527</u>	<u>159</u>	525	160
456.hammer	8	580	129	582	128	<u>582</u>	<u>128</u>	8	361	207	<u>360</u>	<u>207</u>	359	208
458.sjeng	8	666	145	663	146	<u>663</u>	<u>146</u>	8	602	161	<u>601</u>	<u>161</u>	600	161
462.libquantum	8	5680	29.2	<u>5655</u>	<u>29.3</u>	5640	29.4	1	537	38.6	<u>537</u>	<u>38.6</u>	538	38.5
464.h264ref	8	<u>672</u>	<u>263</u>	672	264	673	263	8	<u>649</u>	<u>273</u>	640	277	659	269
471.omnetpp	8	752	66.5	<u>743</u>	<u>67.3</u>	741	67.5	8	719	69.5	<u>720</u>	<u>69.5</u>	720	69.4
473.astar	8	772	72.8	<u>764</u>	<u>73.5</u>	756	74.3	8	724	77.6	722	77.8	<u>724</u>	<u>77.6</u>
483.xalancbmk	8	438	126	<u>437</u>	<u>126</u>	437	126	8	438	126	<u>437</u>	<u>126</u>	437	126

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

Compiler Invocation Notes

OMP_NUM_THREADS set to number of cores
KMP_STACK_SIZE set to 64M
KMP_AFFINITY set to physical,0

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.
'/usr/bin/taskset' used to bind benchmark copies to processors.

Platform Notes

BIOS configuration:
Hardware Prefetch Disabled

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 115

Servidor Itaotec LX211 (Intel Xeon X5460)

SPECint_rate_base2006 = 104

CPU2006 license: 9001
Test sponsor: Itaotec
Tested by: Itaotec

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Jan-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 -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/opt/sh/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/10.1.012/bin/icc
-L/opt/intel/cce/10.1.012/lib
-I/opt/intel/cce/10.1.012/include

456.hmmer: /opt/intel/cce/10.1.012/bin/icc
-L/opt/intel/cce/10.1.012/lib
-I/opt/intel/cce/10.1.012/include

C++ benchmarks:
icpc

Peak Portability Flags

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

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint_rate2006 = 115

Servidor Itautec LX211 (Intel Xeon X5460)

SPECint_rate_base2006 = 104

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Jan-2008

Peak Portability Flags (Continued)

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: basepeak = yes

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/sh/SmartHeap_8.1/lib -lsmarheap

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/sh/SmartHeap_8.1/lib -lsmarheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 115

Servidor Itaotec LX211 (Intel Xeon X5460)

SPECint_rate_base2006 = 104

CPU2006 license: 9001
Test sponsor: Itaotec
Tested by: Itaotec

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Jan-2008

Peak Other Flags (Continued)

403.gcc: -Dalloca=_alloca

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

<http://www.spec.org/cpu2006/flags/Itaotec-ic10.1-INT-intel64-linux-flags.html>

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

<http://www.spec.org/cpu2006/flags/Itaotec-ic10.1-INT-intel64-linux-flags.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 v1.0.1.
Report generated on Tue Jul 22 16:52:16 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 April 2008.