



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint®_rate2006 = 270

Servidor Itautec MX214 (Intel Xeon E5640)

SPECint_rate_base2006 = 259

CPU2006 license: 9001

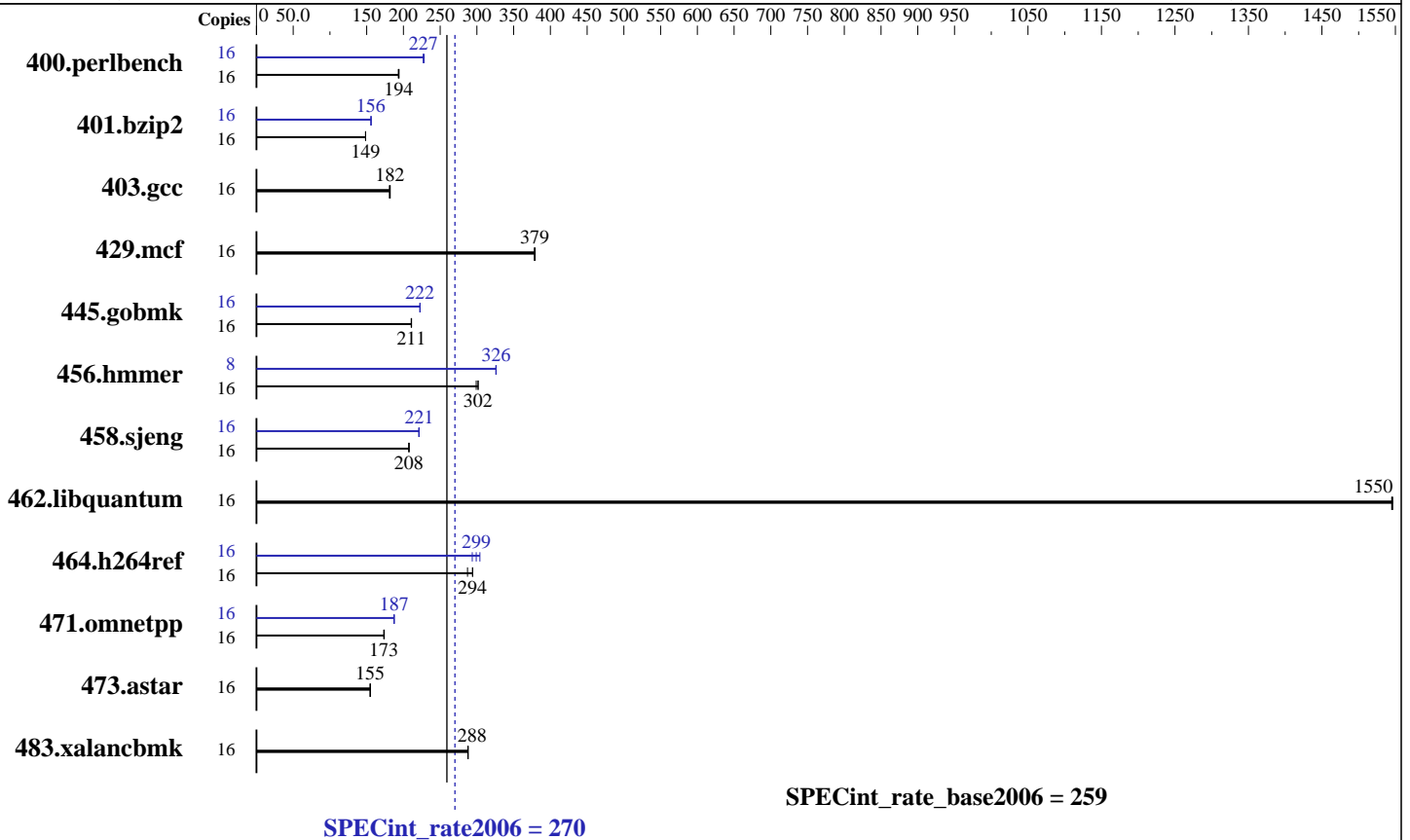
Test date: Jan-2012

Test sponsor: Itautec

Hardware Availability: Jul-2011

Tested by: Itautec

Software Availability: Dec-2011



Hardware

CPU Name: Intel Xeon E5640
 CPU Characteristics: Intel Turbo Boost Technology up to 2.93 GHz
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 12 MB I+D on chip per chip
 Other Cache: None
 Memory: 48 GB (12 x 4 GB 2Rx4 PC3-10600R-9, ECC)
 Disk Subsystem: 2 x 146 GB, SAS, 15000 RPM, RAID 0
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux Server Release 6.2, 2.6.32-220.el6.x86_64
 Compiler: C/C++: Version 12.1.0 of Intel Compiler XE Build 20111011
 Auto Parallel: No
 File System: ext4
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 270

Servidor Itaotec MX214 (Intel Xeon E5640)

SPECint_rate_base2006 = 259

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

Test date: Jan-2012
Hardware Availability: Jul-2011
Software Availability: Dec-2011

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	16	809	193	808	194	806	194	16	688	227	685	228	688	227
401.bzip2	16	1039	149	1040	148	1040	149	16	991	156	991	156	989	156
403.gcc	16	712	181	708	182	709	182	16	712	181	708	182	709	182
429.mcf	16	386	378	385	379	385	379	16	386	378	385	379	385	379
445.gobmk	16	795	211	796	211	797	211	16	754	222	754	222	753	223
456.hammer	16	495	302	495	302	499	299	8	229	326	229	326	229	326
458.sjeng	16	934	207	933	208	932	208	16	877	221	875	221	874	221
462.libquantum	16	214	1550	215	1540	215	1550	16	214	1550	215	1540	215	1550
464.h264ref	16	1204	294	1204	294	1233	287	16	1184	299	1164	304	1206	294
471.omnetpp	16	575	174	577	173	577	173	16	534	187	533	188	535	187
473.astar	16	725	155	725	155	726	155	16	725	155	725	155	726	155
483.xalancbmk	16	384	288	383	288	383	288	16	384	288	383	288	383	288

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.
Large pages were not enabled for this run

Platform Notes

Data Reuse disabled in BIOS.
DCU Prefetcher disabled in BIOS.

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint_rate2006 = 270

Servidor Itautec MX214 (Intel Xeon E5640)

SPECint_rate_base2006 = 259

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

Test date: Jan-2012
Hardware Availability: Jul-2011
Software Availability: Dec-2011

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3
-Wl,-z,muldefs -L/home/rcaneca/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 -m32

400.perlbench: icc -m64

401.bzip2: icc -m64

456.hmmmer: icc -m64

458.sjeng: icc -m64

C++ benchmarks:
icpc -m32

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 270

Servidor Itaotec MX214 (Intel Xeon E5640)

SPECint_rate_base2006 = 259

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

Test date: Jan-2012
Hardware Availability: Jul-2011
Software Availability: Dec-2011

Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
483.xalanbmk: -DSPEC_CPU_LINUX

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) -prof-use(pass 2)
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-opt-prefetch -auto-ilp32 -ansi-alias
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

403.gcc: basepeak = yes

429.mcf: basepeak = yes

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)
-ansi-alias -auto-ilp32

456.hmmr: -xSSE4.2 -ipo -O3 -no-prec-div -unroll2 -auto-ilp32
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll4 -auto-ilp32
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -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=block -Wl,-z,muldefs
-L/home/rcaneca/sh/SmartHeap_8.1/lib -lsmarheap

473.astar: basepeak = yes

483.xalanbmk: basepeak = yes



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint_rate2006 = 270

Servidor Itautec MX214 (Intel Xeon E5640)

SPECint_rate_base2006 = 259

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

Test date: Jan-2012
Hardware Availability: Jul-2011
Software Availability: Dec-2011

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/Itautec-Servidor_Itautec-Intel-Linux-Platform.html
<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html>

You can also download the XML flags sources by saving the following links:

http://www.spec.org/cpu2006/flags/Itautec-Servidor_Itautec-Intel-Linux-Platform.xml
<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.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 v1.2.
Report generated on Thu Jul 24 02:19:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 27 March 2012.