



SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint®_rate2006 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

CPU2006 license: 9001

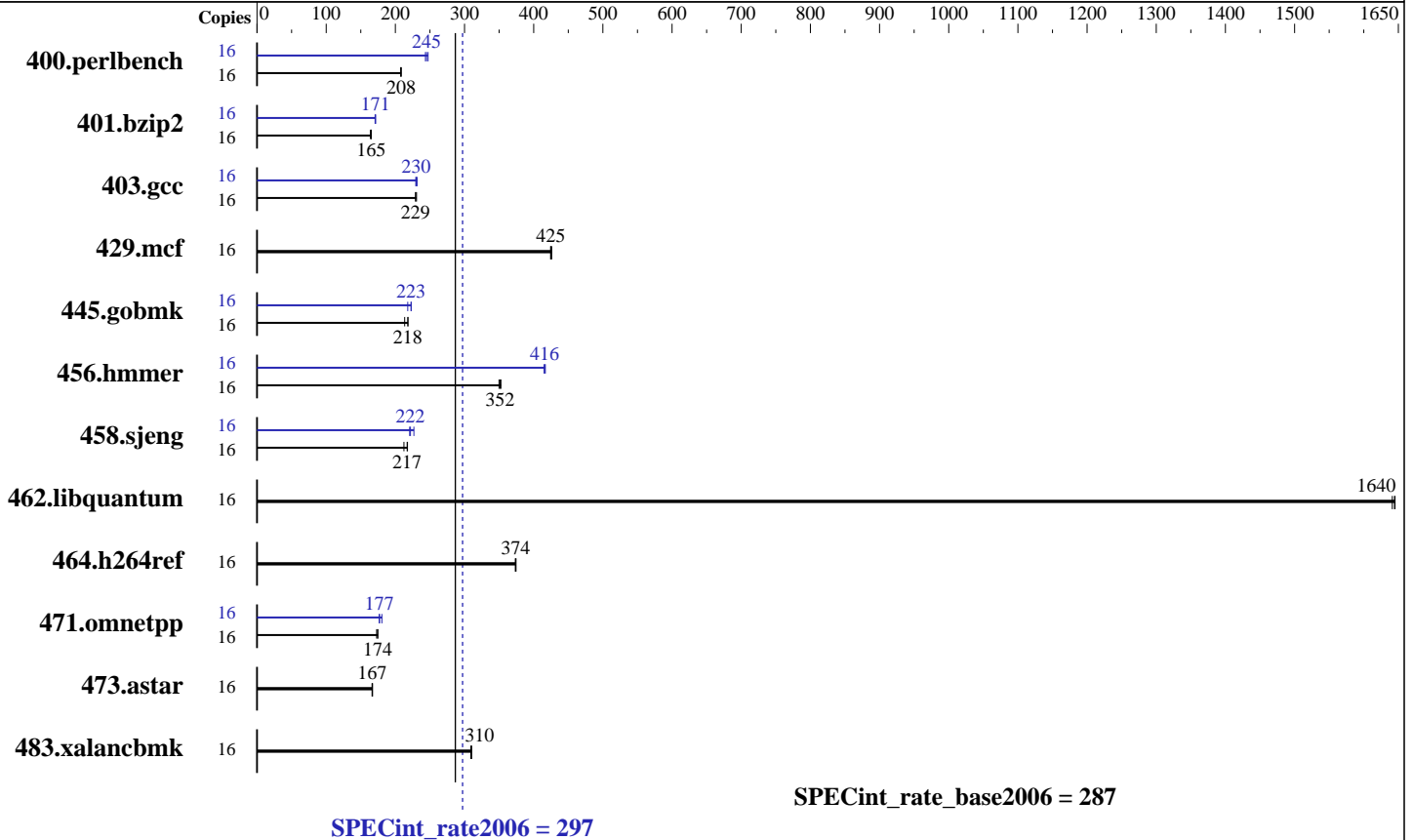
Test date: Aug-2011

Test sponsor: Itaotec

Hardware Availability: Jun-2012

Tested by: Itaotec

Software Availability: Dec-2011



Hardware

CPU Name: Intel Xeon E5-2660
 CPU Characteristics: Intel Turbo Boost Technology up to 3.00 GHz
 CPU MHz: 2200
 FPU: Integrated
 CPU(s) enabled: 8 cores, 1 chip, 8 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: 20 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (8 x 4 GB 1Rx4 PC3-12800R-11, ECC)
 Disk Subsystem: 3 x 300 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 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

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

Test date: Aug-2011
Hardware Availability: Jun-2012
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	753	208	<u>750</u>	<u>208</u>	750	208	16	632	247	642	243	<u>638</u>	<u>245</u>
401.bzip2	16	942	164	934	165	<u>935</u>	<u>165</u>	16	<u>902</u>	<u>171</u>	901	171	905	171
403.gcc	16	562	229	559	231	<u>562</u>	<u>229</u>	16	<u>559</u>	<u>230</u>	561	230	557	231
429.mcf	16	343	426	344	424	<u>344</u>	<u>425</u>	16	343	426	344	424	<u>344</u>	<u>425</u>
445.gobmk	16	786	213	769	218	<u>770</u>	<u>218</u>	16	770	218	<u>754</u>	<u>223</u>	753	223
456.hammer	16	427	350	423	353	<u>425</u>	<u>352</u>	16	358	417	<u>359</u>	<u>416</u>	360	415
458.sjeng	16	912	212	<u>892</u>	<u>217</u>	890	218	16	<u>873</u>	<u>222</u>	854	227	877	221
462.libquantum	16	202	1640	<u>202</u>	<u>1640</u>	202	1650	16	202	1640	<u>202</u>	<u>1640</u>	202	1650
464.h264ref	16	948	374	<u>947</u>	<u>374</u>	946	374	16	948	374	<u>947</u>	<u>374</u>	946	374
471.omnetpp	16	578	173	573	175	<u>573</u>	<u>174</u>	16	566	177	554	181	<u>564</u>	<u>177</u>
473.astar	16	675	166	<u>674</u>	<u>167</u>	673	167	16	675	166	<u>674</u>	<u>167</u>	673	167
483.xalancbmk	16	357	309	356	310	<u>356</u>	<u>310</u>	16	357	309	356	310	<u>356</u>	<u>310</u>

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

Sysinfo program /home/rcaneca/cpu2006/Docs/sysinfo
\$Rev: 6775 \$ \$Date:: 2011-08-16 #\$ 8787f7622badcf24e01c368b1db4377c
running on itaotec.fam5 Fri Aug 19 09:31:40 2011

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

From /proc/cpuinfo
model name : Genuine Intel(R) CPU @ 2.20GHz
1 "physical id"s (chips)
16 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
cpu cores : 8
siblings : 16

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

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

Test date: Aug-2011
Hardware Availability: Jun-2012
Software Availability: Dec-2011

Platform Notes (Continued)

physical 0: cores 0 1 2 3 4 5 6 7
cache size : 20480 KB

From /proc/meminfo
MemTotal: 32824916 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

/usr/bin/lsb_release -d
Red Hat Enterprise Linux Server release 6.2 (Santiago)

From /etc/*release* /etc/*version*
redhat-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release: Red Hat Enterprise Linux Server release 6.2 (Santiago)
system-release-cpe: cpe:/o:redhat:enterprise_linux:6server:ga:server

uname -a:
Linux itaotec.fam5 2.6.32-220.el6.x86_64 #1 SMP Wed Nov 9 08:03:13 EST 2011
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Aug 17 17:57

SPEC is set to: /home/rcaneca/cpu2006
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/vg_itaotec-lv_home
ext4 710G 1.9G 672G 1% /home

(End of data from sysinfo program)

General Notes

This result was measured on the Servidor Itaotec MX225.
The Servidor Itaotec MX215 and the Servidor Itaotec MX225
are electronically equivalent.

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

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

Test date: Aug-2011
Hardware Availability: Jun-2012
Software Availability: Dec-2011

Base Portability Flags (Continued)

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.hmmer: 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.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint_rate2006 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

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

Test date: Aug-2011
Hardware Availability: Jun-2012
Software Availability: Dec-2011

Peak Portability Flags (Continued)

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: -xSSE4.2 -ipo -O3 -no-prec-div

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: basepeak = yes

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

Itaotec

SPECint_rate2006 = 297

Servidor Itaotec MX225 (Intel Xeon E5-2660)

SPECint_rate_base2006 = 287

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

Test date: Aug-2011
Hardware Availability: Jun-2012
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/Itaotec-Servidor_Itaotec-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/Itaotec-Servidor_Itaotec-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 10:31:19 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 11 September 2012.