



SPEC® CINT2006 Result

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Itautec

SPECint®_rate2006 = 120

Servidor Itautec LX103 (Intel Xeon X3470)

SPECint_rate_base2006 = 112

CPU2006 license: 9001

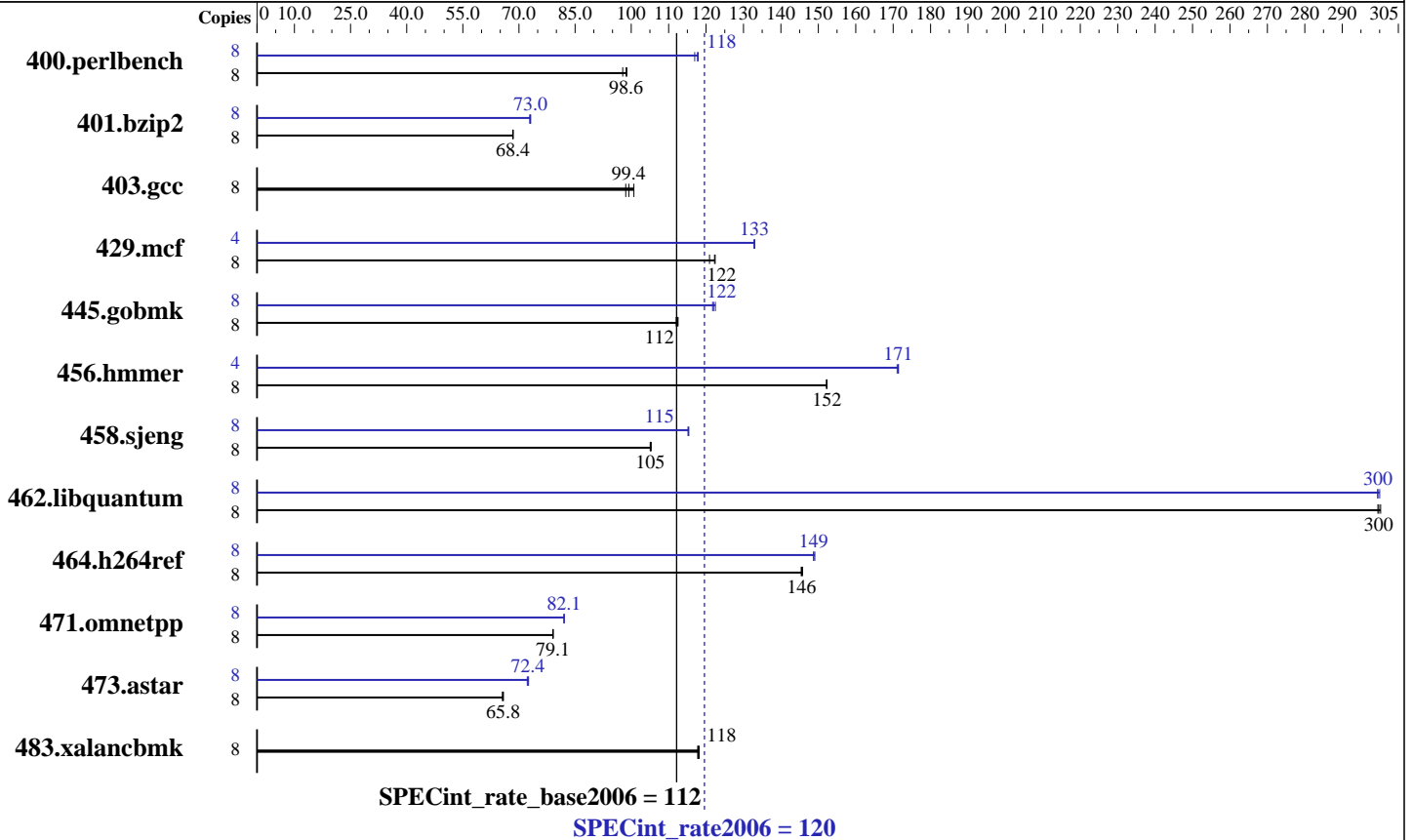
Test date: Mar-2011

Test sponsor: Itautec

Hardware Availability: Dec-2009

Tested by: Itautec

Software Availability: Apr-2010



Hardware

CPU Name: Intel Xeon X3470
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB (4 x 2 GB 2Rx8 PC3-10600U-9, ECC)
 Disk Subsystem: 1 x 160 GB SATA-2, 7200 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-smp
 Compiler: Intel C++ Professional Compiler 11.1 for Linux Build 20100414 Package ID: l_cproc_p_11.1.072
 Auto Parallel: No
 File System: ReiserFS
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	800	97.7	<u>792</u>	<u>98.6</u>	791	98.8	8	663	118	<u>664</u>	<u>118</u>	668	117
401.bzip2	8	1127	68.5	1130	68.3	<u>1129</u>	<u>68.4</u>	8	<u>1057</u>	<u>73.0</u>	1055	73.1	1060	72.9
403.gcc	8	654	98.5	<u>648</u>	<u>99.4</u>	639	101	8	654	98.5	<u>648</u>	<u>99.4</u>	639	101
429.mcf	8	603	121	596	122	<u>597</u>	<u>122</u>	4	274	133	<u>274</u>	<u>133</u>	275	133
445.gobmk	8	746	112	749	112	<u>746</u>	<u>112</u>	8	689	122	685	122	<u>688</u>	<u>122</u>
456.hammer	8	491	152	<u>490</u>	<u>152</u>	490	152	4	218	171	218	171	<u>218</u>	<u>171</u>
458.sjeng	8	921	105	<u>921</u>	<u>105</u>	919	105	8	840	115	<u>840</u>	<u>115</u>	839	115
462.libquantum	8	552	300	553	300	<u>553</u>	<u>300</u>	8	554	299	553	300	<u>553</u>	<u>300</u>
464.h264ref	8	1217	145	<u>1216</u>	<u>146</u>	1214	146	8	1190	149	<u>1190</u>	<u>149</u>	1188	149
471.omnetpp	8	<u>632</u>	<u>79.1</u>	633	79.0	632	79.1	8	<u>609</u>	<u>82.1</u>	609	82.1	610	82.0
473.astar	8	857	65.6	<u>854</u>	<u>65.8</u>	853	65.8	8	774	72.6	<u>776</u>	<u>72.4</u>	778	72.2
483.xalancbmk	8	<u>468</u>	<u>118</u>	469	118	467	118	8	<u>468</u>	<u>118</u>	469	118	467	118

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.

General Notes

This result was measured on the Servidor Itaotec LX114.
The Servidor Itaotec LX103, Servidor Itaotec LX113 and the Servidor Itaotec LX114 are electronically equivalent.

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32



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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 -static -opt-prefetch

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -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 -m32

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

462.libquantum: icc -m64

C++ benchmarks (except as noted below):
icpc -m32

473.astar: icpc -m64

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64

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Peak Portability Flags (Continued)

456.hmmcr: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -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) -static(pass 2)
-prof-use(pass 2) -ansi-alias
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: basepeak = yes
429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch
445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
-ipo -no-prec-div -ansi-alias
456.hmmcr: -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 -auto-ilp32
-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: -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/opt/sh/SmartHeap_8.1/lib -lsmartheap
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 -Wl,-z,muldefs

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Peak Optimization Flags (Continued)

473.astar (continued):
-L/opt/sh/SmartHeap_8/lib -lsmartheap64

483.xalancbmk: basepeak = yes

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-ic11.1-linux64-revG.20101123.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revG.20101123.xml>

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For other inquiries, please contact webmaster@spec.org.

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