



SPEC[®] CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.

SPECint[®]_rate2006 = 141

NTT Tytan S31 series (Intel Xeon E5506)

SPECint_rate_base2006 = 132

CPU2006 license: 9013

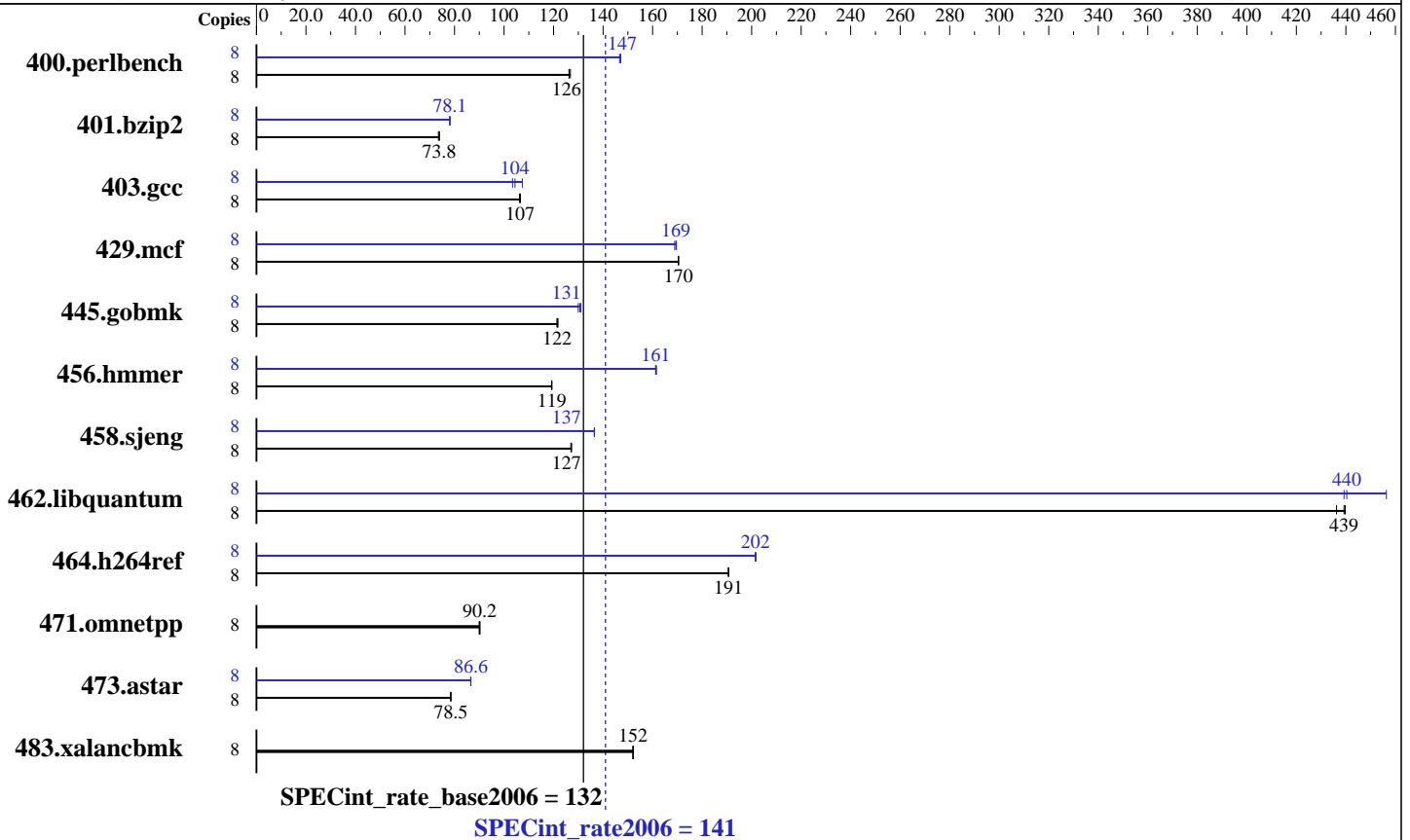
Test date: Aug-2009

Test sponsor: NTT System S. A.

Hardware Availability: May-2009

Tested by: NTT System S. A.

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon E5506
 CPU Characteristics:
 CPU MHz: 2133
 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: 256 KB I+D on chip per core
 L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (6 x 4 GB 1333 MHz ECC Registered runnig at 800 MHz)
 Disk Subsystem: 147 GB SAS, 10000 RPM
 Other Hardware: None

Software

Operating System: SuSe Linux Enterprise Server 10 (x86_64) SP2, kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ Compiler 11.0 for Linux Build 20080930 Package ID: l_cproc_p_11.0.066
 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 Binutils 2.18.50.0.7.20080502



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.

SPECint_rate2006 = 141

NTT Tytan S31 series (Intel Xeon E5506)

SPECint_rate_base2006 = 132

CPU2006 license: 9013

Test date: Aug-2009

Test sponsor: NTT System S. A.

Hardware Availability: May-2009

Tested by: NTT System S. A.

Software Availability: Nov-2008

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	619	126	<u>619</u>	<u>126</u>	616	127	8	<u>532</u>	<u>147</u>	533	147	531	147
401.bzip2	8	1051	73.5	<u>1045</u>	<u>73.8</u>	1045	73.9	8	988	78.1	989	78.0	<u>988</u>	<u>78.1</u>
403.gcc	8	606	106	<u>605</u>	<u>107</u>	604	107	8	600	107	623	103	<u>617</u>	<u>104</u>
429.mcf	8	428	170	<u>428</u>	<u>170</u>	428	170	8	432	169	<u>431</u>	<u>169</u>	430	170
445.gobmk	8	691	121	<u>691</u>	<u>122</u>	689	122	8	646	130	<u>643</u>	<u>131</u>	641	131
456.hammer	8	626	119	626	119	<u>626</u>	<u>119</u>	8	463	161	462	162	<u>463</u>	<u>161</u>
458.sjeng	8	762	127	761	127	<u>761</u>	<u>127</u>	8	709	137	<u>709</u>	<u>137</u>	709	136
462.libquantum	8	380	436	377	440	<u>377</u>	<u>439</u>	8	377	439	363	456	<u>376</u>	<u>440</u>
464.h264ref	8	929	191	928	191	<u>929</u>	<u>191</u>	8	878	202	879	201	<u>878</u>	<u>202</u>
471.omnetpp	8	<u>555</u>	<u>90.2</u>	556	89.9	554	90.3	8	<u>555</u>	<u>90.2</u>	556	89.9	554	90.3
473.astar	8	715	78.5	<u>715</u>	<u>78.5</u>	716	78.5	8	649	86.5	<u>649</u>	<u>86.6</u>	648	86.6
483.xalanbmk	8	<u>363</u>	<u>152</u>	363	152	363	152	8	<u>363</u>	<u>152</u>	363	152	363	152

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

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-alloc
-opt-malloc-options=3 -opt-prefetch

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.

SPECint_rate2006 = 141

NTT Tytan S31 series (Intel Xeon E5506)

SPECint_rate_base2006 = 132

CPU2006 license: 9013

Test date: Aug-2009

Test sponsor: NTT System S. A.

Hardware Availability: May-2009

Tested by: NTT System S. A.

Software Availability: Nov-2008

Base Optimization Flags (Continued)

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.hmmer: /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.hmmer: -DSPEC_CPU_LP64

458.sjeng: -DSPEC_CPU_LP64

462.libquantum: -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 -opt-prefetch

Continued on next page



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.

SPECint_rate2006 = 141

NTT Tytan S31 series (Intel Xeon E5506)

SPECint_rate_base2006 = 132

CPU2006 license: 9013

Test date: Aug-2009

Test sponsor: NTT System S. A.

Hardware Availability: May-2009

Tested by: NTT System S. A.

Software Availability: Nov-2008

Peak Optimization Flags (Continued)

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-alloc
-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.hmmer: -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
-W1,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap64

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NTT System S. A.

SPECint_rate2006 = 141

NTT Tytan S31 series (Intel Xeon E5506)

SPECint_rate_base2006 = 132

CPU2006 license: 9013

Test date: Aug-2009

Test sponsor: NTT System S. A.

Hardware Availability: May-2009

Tested by: NTT System S. A.

Software Availability: Nov-2008

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.20090901.00.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.20090901.00.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 02:51:08 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 September 2009.