



SPEC® CINT2006 Result

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NTT System S. A.

SPECint®2006 = 22.7

NTT Tytan S8 Series (Intel Xeon E5410)

SPECint_base2006 = 19.9

CPU2006 license: 9013

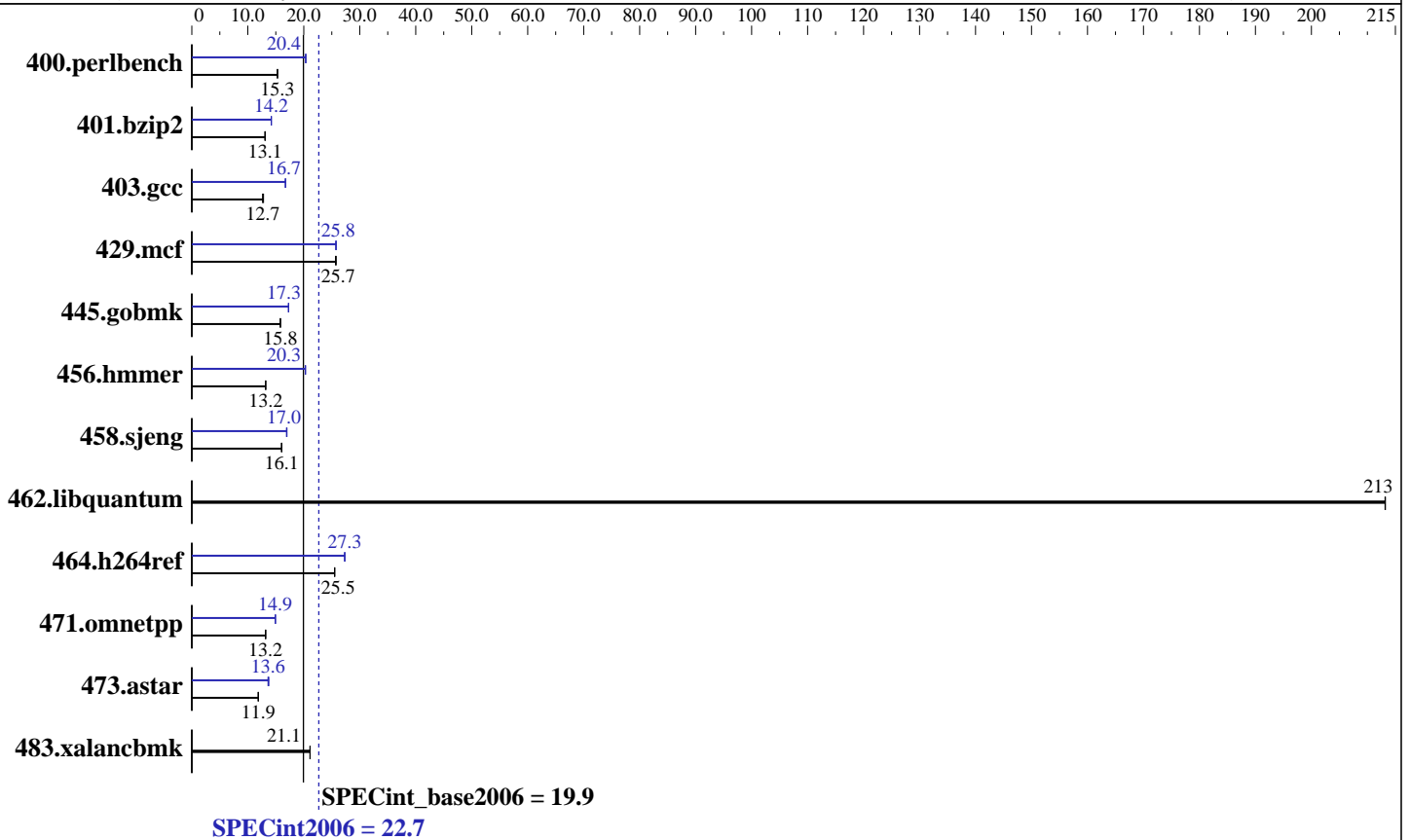
Test date: Jan-2009

Test sponsor: NTT System S. A.

Hardware Availability: Dec-2008

Tested by: NTT System S. A.

Software Availability: Dec-2008



Hardware

CPU Name: Intel Xeon E5410
 CPU Characteristics: 2.33 GHz, 2x6 MB P2 shared, 1333 MHz System Bus
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 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: 16 GB (4 x 4GB DDR2-667 FBDIMM)
 Disk Subsystem: 300 GB SATA, 7200RPM
 Other Hardware: None

Software

Operating System: SuSe Linux Enterprise Server 10 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: Yes
 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



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	638	15.3	<u>639</u>	<u>15.3</u>	639	15.3	480	20.4	<u>480</u>	<u>20.4</u>	481	20.3
401.bzip2	735	13.1	<u>737</u>	<u>13.1</u>	740	13.0	679	14.2	680	14.2	<u>679</u>	<u>14.2</u>
403.gcc	<u>635</u>	<u>12.7</u>	636	12.7	628	12.8	481	16.7	482	16.7	<u>481</u>	<u>16.7</u>
429.mcf	355	25.7	354	25.8	<u>354</u>	<u>25.7</u>	<u>354</u>	<u>25.8</u>	354	25.8	355	25.7
445.gobmk	663	15.8	<u>663</u>	<u>15.8</u>	663	15.8	607	17.3	607	17.3	<u>607</u>	<u>17.3</u>
456.hammer	<u>707</u>	<u>13.2</u>	707	13.2	707	13.2	<u>460</u>	<u>20.3</u>	460	20.3	460	20.3
458.sjeng	756	16.0	753	16.1	<u>753</u>	<u>16.1</u>	712	17.0	716	16.9	<u>713</u>	<u>17.0</u>
462.libquantum	97.2	213	97.2	213	<u>97.2</u>	<u>213</u>	97.2	213	97.2	213	<u>97.2</u>	<u>213</u>
464.h264ref	<u>867</u>	<u>25.5</u>	868	25.5	867	25.5	810	27.3	811	27.3	<u>810</u>	<u>27.3</u>
471.omnetpp	475	13.2	<u>475</u>	<u>13.2</u>	473	13.2	419	14.9	419	14.9	<u>419</u>	<u>14.9</u>
473.astar	591	11.9	<u>591</u>	<u>11.9</u>	592	11.9	510	13.8	<u>515</u>	<u>13.6</u>	515	13.6
483.xalancbmk	<u>327</u>	<u>21.1</u>	327	21.1	327	21.1	<u>327</u>	<u>21.1</u>	327	21.1	327	21.1

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

Operating System Notes

OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 200M

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel
-par-runtime-control -opt-prefetch

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Base Optimization Flags (Continued)

C++ benchmarks:

-xSSE4.1 -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/11.0/066/bin/intel64/icc

456.hmmer: /opt/intel/Compiler/11.0/066/bin/intel64/icc

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

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -auto-ilp32 -opt-prefetch
-ansi-alias

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Peak Optimization Flags (Continued)

403.gcc: -xSSE4.1 -ipo -O3 -no-prec-div -static -inline-alloc
-opt-malloc-options=3

429.mcf: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias -auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -unroll4

462.libquantum: basepeak = yes

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

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

483.xalancbmk: basepeak = yes

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/Intel-ic11.0-int-linux64-revA.20090710.01.html>
<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.01.xml>
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For other inquiries, please contact webmaster@spec.org.

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