



SPEC® CINT2006 Result

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Sun Microsystems

SPECint®_rate2006 = 103

Sun Netra X4250 (Intel Xeon L5408 2.13GHz)

SPECint_rate_base2006 = 82.0

CPU2006 license: 6

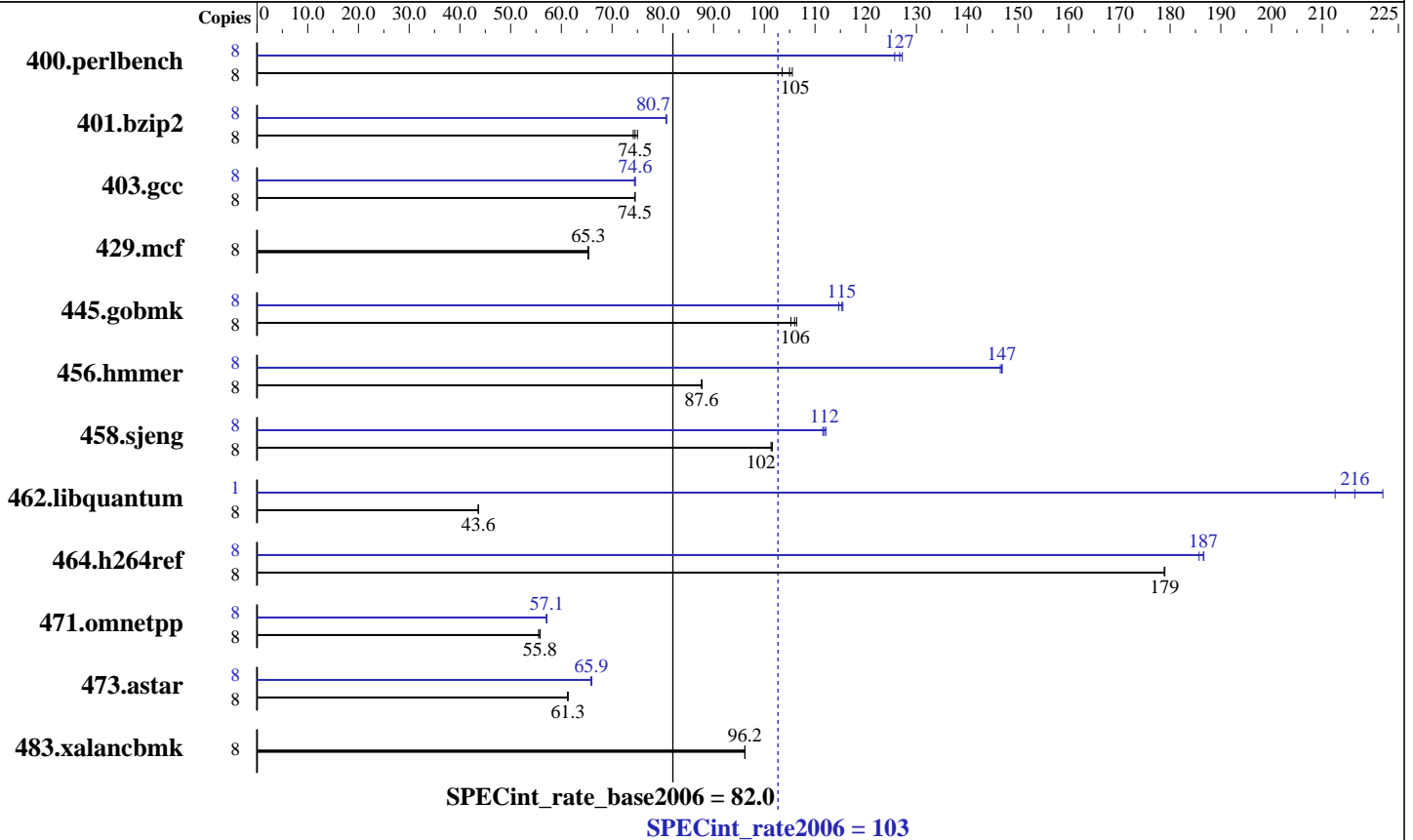
Test date: Aug-2008

Test sponsor: Sun Microsystems

Hardware Availability: Aug-2008

Tested by: Sun Microsystems

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon L5408
 CPU Characteristics:
 CPU MHz: 2133
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 2,4 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: 64 GB (16x4 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: SAS, 146GB, 10K RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070913
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Multi-user, run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Binutils 2.17.10.50, 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	755	104	<u>745</u>	<u>105</u>	741	106	8	614	127	<u>617</u>	<u>127</u>	622	126
401.bzip2	8	<u>1036</u>	<u>74.5</u>	1041	74.2	1029	75.0	8	957	80.7	<u>957</u>	<u>80.7</u>	956	80.7
403.gcc	8	<u>864</u>	<u>74.5</u>	864	74.5	865	74.5	8	865	74.4	<u>864</u>	<u>74.6</u>	864	74.6
429.mcf	8	<u>1117</u>	<u>65.3</u>	1116	65.4	1118	65.3	8	<u>1117</u>	<u>65.3</u>	1116	65.4	1118	65.3
445.gobmk	8	789	106	797	105	<u>792</u>	<u>106</u>	8	732	115	<u>728</u>	<u>115</u>	727	116
456.hmmer	8	852	87.6	851	87.7	<u>852</u>	<u>87.6</u>	8	508	147	<u>508</u>	<u>147</u>	509	147
458.sjeng	8	<u>954</u>	<u>102</u>	955	101	953	102	8	<u>866</u>	<u>112</u>	863	112	868	112
462.libquantum	8	<u>3798</u>	<u>43.6</u>	3798	43.6	3800	43.6	1	93.4	222	97.5	213	<u>95.7</u>	<u>216</u>
464.h264ref	8	<u>990</u>	<u>179</u>	990	179	989	179	8	<u>949</u>	<u>187</u>	948	187	953	186
471.omnetpp	8	896	55.8	901	55.5	<u>897</u>	<u>55.8</u>	8	875	57.2	<u>875</u>	<u>57.1</u>	877	57.0
473.astar	8	918	61.2	<u>916</u>	<u>61.3</u>	916	61.3	8	851	66.0	853	65.9	<u>852</u>	<u>65.9</u>
483.xalancbmk	8	574	96.2	<u>574</u>	<u>96.2</u>	574	96.2	8	574	96.2	<u>574</u>	<u>96.2</u>	574	96.2

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

Operating System Notes

taskset was used to bind processes to cores except for 462.libquantum peak

'ulimit -s unlimited' was used to set the stacksize to unlimited

OMP_NUM_THREADS set to number of cores.

KMP_STACKSIZE set to 64M

KMP_AFFINITY set to physical,0

Platform Notes

Default BIOS configuration used (includes this settings):

Hardware Prefetch = Disable; Adjacent Sector Prefetch = Disable

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer and 462.libquantum for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc



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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:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/data1/SmartHeap_8.1/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/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

462.libquantum: /opt/intel/cce/10.1.008/bin/icc
-L/opt/intel/cce/10.1.008/lib
-I/opt/intel/cce/10.1.008/include

C++ benchmarks:
icpc



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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) -fast -ansi-alias
 -prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -auto-ilp32
 -unroll4 -ansi-alias -opt-multi-version-aggressive
 -vec-guard-write

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: basepeak = yes

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

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -O3 -auto-ilp32 -unroll8 -Ob0
 -opt-streaming-stores always -vec-guard-write
 -opt-malloc-options=3 -parallel -par-runtime-control
 -no-prec-div -opt-ra-region-strategy=routine

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
 -no-prec-div -ansi-alias -opt-ra-region-strategy=block
 -Wl,-z,muldefs -L/data1/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
 -no-prec-div -ansi-alias -opt-ra-region-strategy=routine
 -Wl,-z,muldefs -L/data1/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes



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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-ic10-ia32-intel64-linux-flags.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.xml>

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

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