



SPEC® CINT2006 Result

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Sun Microsystems Sun Blade X6250

SPECint®2006 = 18.5
SPECint_base2006 = 16.1

CPU2006 license: 6

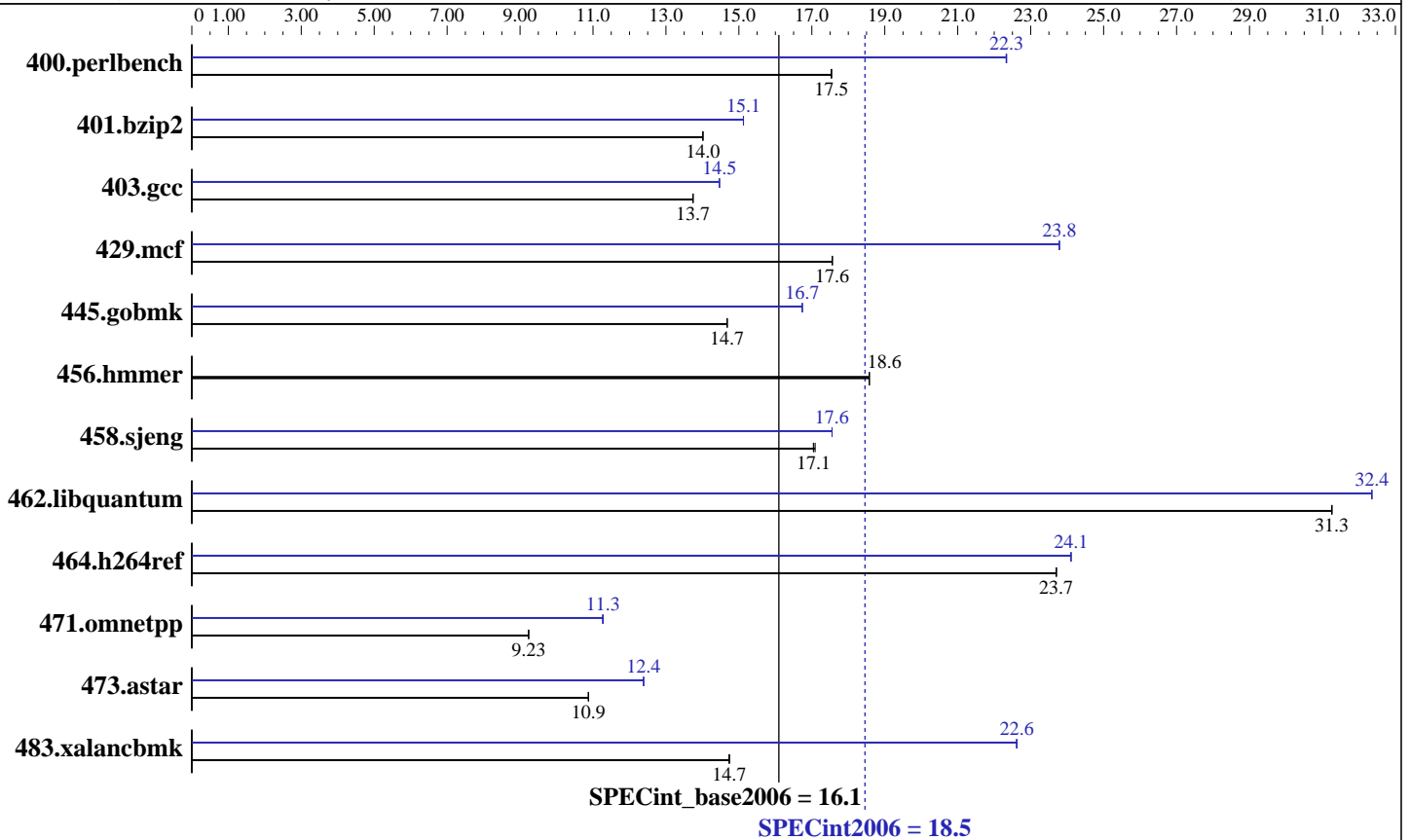
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: May-2007

Hardware Availability: Jun-2007

Software Availability: Jul-2007



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1-2 (order by number of chips)
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 32 GB (16x2GB DDR2 PC2-5300F 2rank CAS 5-5-5 with ECC)
 Disk Subsystem: SAS, 72 GB, 10K RPM
 Other Hardware: None

Software

Operating System: Solaris 10 11/06
 Compiler: Sun Studio 12
 Auto Parallel: No
 File System: ufs
 System State: Multiuser, Runlevel 3
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library v7.4



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	557	17.5	<u>557</u>	<u>17.5</u>	557	17.5	437	22.3	<u>437</u>	<u>22.3</u>	438	22.3
401.bzip2	688	14.0	<u>689</u>	<u>14.0</u>	689	14.0	<u>638</u>	<u>15.1</u>	638	15.1	638	15.1
403.gcc	<u>586</u>	<u>13.7</u>	586	13.7	586	13.7	556	14.5	<u>556</u>	<u>14.5</u>	557	14.5
429.mcf	519	17.6	<u>519</u>	<u>17.6</u>	519	17.6	383	23.8	383	23.8	<u>383</u>	<u>23.8</u>
445.gobmk	<u>715</u>	<u>14.7</u>	715	14.7	715	14.7	<u>627</u>	<u>16.7</u>	627	16.7	627	16.7
456.hammer	<u>502</u>	<u>18.6</u>	502	18.6	502	18.6	<u>502</u>	<u>18.6</u>	502	18.6	502	18.6
458.sjeng	708	17.1	<u>710</u>	<u>17.1</u>	710	17.0	<u>689</u>	<u>17.6</u>	689	17.6	689	17.6
462.libquantum	663	31.3	<u>663</u>	<u>31.3</u>	663	31.3	640	32.4	<u>640</u>	<u>32.4</u>	641	32.3
464.h264ref	933	23.7	934	23.7	<u>934</u>	<u>23.7</u>	<u>918</u>	<u>24.1</u>	918	24.1	918	24.1
471.omnetpp	<u>677</u>	<u>9.23</u>	677	9.23	677	9.24	555	11.3	<u>555</u>	<u>11.3</u>	554	11.3
473.astar	<u>646</u>	<u>10.9</u>	646	10.9	645	10.9	567	12.4	567	12.4	<u>567</u>	<u>12.4</u>
483.xalancbmk	469	14.7	468	14.7	<u>468</u>	<u>14.7</u>	<u>305</u>	<u>22.6</u>	305	22.6	305	22.6

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

Operating System Notes

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

Platform Notes

Default BIOS settings were used.

Base Compiler Invocation

C benchmarks:
cc

C++ benchmarks:
CC

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS_X64
401.bzip2: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS

Base Optimization Flags

C benchmarks:
-fast -xipo=2 -xarch=sse2 -m64
C++ benchmarks:
-fast -xipo=2 -xarch=sse2 -m64 -library=stlport4

Base Other Flags

C benchmarks:
-V
C++ benchmarks:
-verbose=version

Peak Compiler Invocation

C benchmarks:
cc
C++ benchmarks:
CC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_SOLARIS_X64
403.gcc: -DSPEC_CPU_LP64 -DSPEC_CPU_SOLARIS
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_SOLARIS

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_SOLARIS

Peak Optimization Flags

C benchmarks:

400.perlbench: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xalias_level=std -xvector=simd -lbsdmalloc
-L/data1/SmartHeap_7.4smp/lib -lsmartheap_smp

401.bzip2: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-m64 -xalias_level=strong

403.gcc: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -m64
-xalias_level=std -xprefetch_level=2

429.mcf: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-xalias_level=strict -lbsdmalloc

445.gobmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xarch=sse2 -m64
-xrestrict -xalias_level=strong -xdepend -xpagesize=2m
-lmvec

456.hmmer: basepeak = yes

458.sjeng: -fast -xarch=sse2 -m64 -xipo=2 -xprefetch=auto
-xprefetch_level=3 -xpagesize=2m -lmvec

462.libquantum: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-m64 -xunroll=8

464.h264ref: -fast -xarch=sse2 -m64 -xipo=2 -xvector -xunroll=8
-xalias_level=strong -xrestrict -xpagesize=2m -lmvec

C++ benchmarks:

471.omnetpp: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2
-xprefetch_level=3 -xarch=sse2 -Qoption ube -fsimple=3
-L/data1/SmartHeap_7.4smp/lib -lsmartheap_smp
-library=stlport4

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Peak Optimization Flags (Continued)

473.astar: -fast -xipo=2 -L/data1/SmartHeap_7.4smp/lib -lsmarheap_smp
-library=stlport4

483.xalancbmk: -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xipo=2 -xarch=sse2
-xpagesize_stack=2m
-L/data1/SmartHeap_7.4smp/lib -lsmarheap_smp
-library=stlport4

Peak Other Flags

C benchmarks:
-V

C++ benchmarks:
-verbose=version

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.html>

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

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio-Opteron.20090715.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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