



SPEC® CINT2006 Result

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Sun Microsystems Sun Blade X6250

SPECint®2006 = 21.0
SPECint_base2006 = 17.9

CPU2006 license: 6

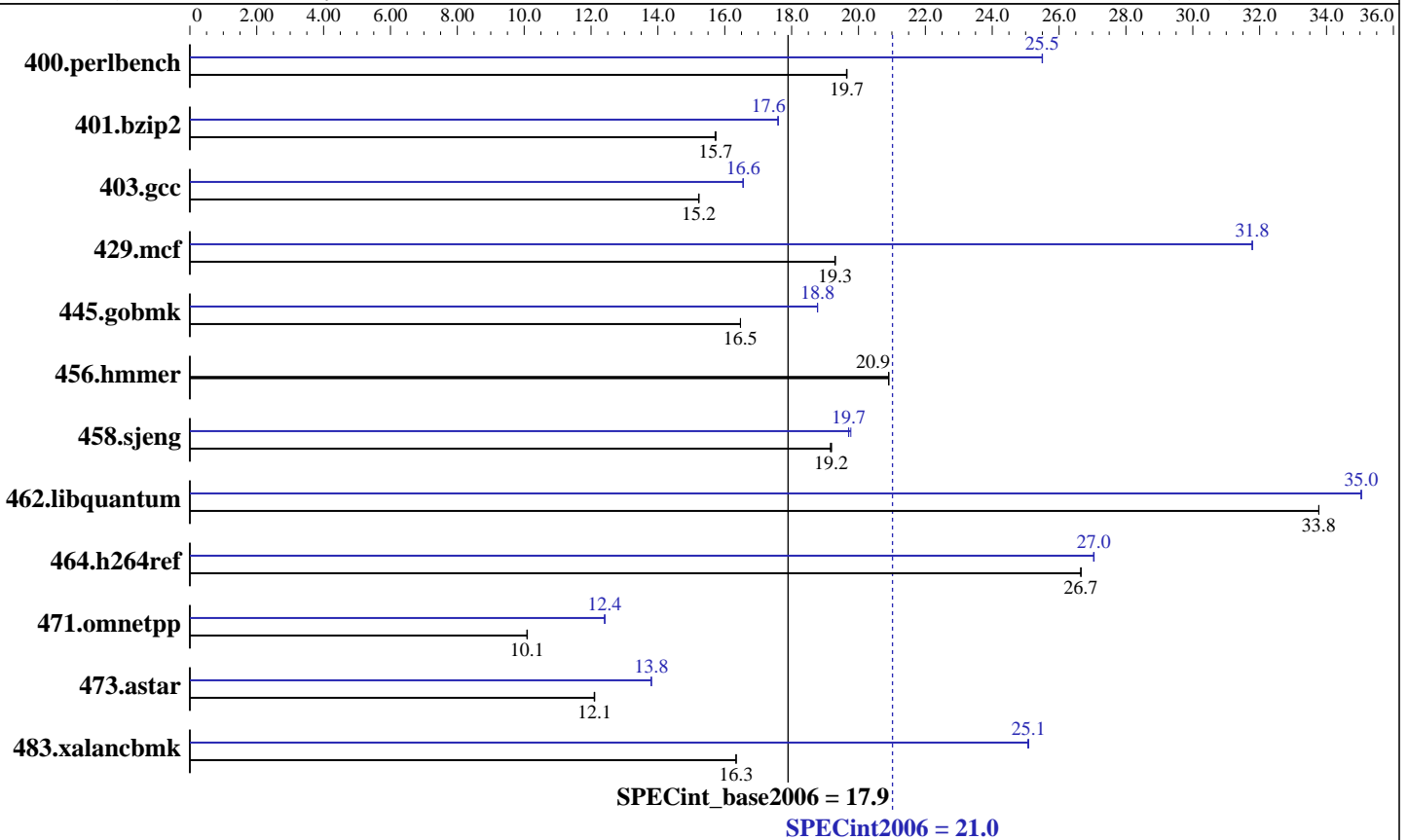
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: May-2007

Hardware Availability: Jun-2007

Software Availability: Jul-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333 MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 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: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2GB 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	497	19.6	497	19.7	<u>497</u>	<u>19.7</u>	383	25.5	383	25.5	<u>383</u>	<u>25.5</u>
401.bzip2	613	15.7	614	15.7	<u>613</u>	<u>15.7</u>	549	17.6	548	17.6	<u>548</u>	<u>17.6</u>
403.gcc	529	15.2	<u>529</u>	<u>15.2</u>	529	15.2	487	16.5	486	16.6	<u>486</u>	<u>16.6</u>
429.mcf	<u>472</u>	<u>19.3</u>	472	19.3	473	19.3	287	31.8	287	31.8	<u>287</u>	<u>31.8</u>
445.gobmk	637	16.5	637	16.5	<u>637</u>	<u>16.5</u>	<u>559</u>	<u>18.8</u>	559	18.8	559	18.8
456.hammer	446	20.9	446	20.9	<u>446</u>	<u>20.9</u>	446	20.9	446	20.9	<u>446</u>	<u>20.9</u>
458.sjeng	<u>631</u>	<u>19.2</u>	632	19.2	630	19.2	614	19.7	612	19.8	<u>614</u>	<u>19.7</u>
462.libquantum	<u>614</u>	<u>33.8</u>	614	33.8	614	33.8	591	35.0	<u>591</u>	<u>35.0</u>	591	35.0
464.h264ref	830	26.7	<u>830</u>	<u>26.7</u>	830	26.7	819	27.0	<u>818</u>	<u>27.0</u>	818	27.0
471.omnetpp	619	10.1	620	10.1	<u>619</u>	<u>10.1</u>	<u>504</u>	<u>12.4</u>	504	12.4	504	12.4
473.astar	580	12.1	580	12.1	<u>580</u>	<u>12.1</u>	509	13.8	509	13.8	<u>509</u>	<u>13.8</u>
483.xalancbmk	<u>422</u>	<u>16.3</u>	422	16.3	422	16.3	275	25.1	<u>275</u>	<u>25.1</u>	275	25.1

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.xalanbmk: -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 -xpagesize=2m -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 -xpagesize=2m

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

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

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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