



# SPEC® CINT2006 Result

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## Sun Microsystems

SPECint®2006 = 27.6

### Sun Fire X2250 (Intel Xeon X5472 3.0GHz)

SPECint\_base2006 = 23.7

CPU2006 license: 6

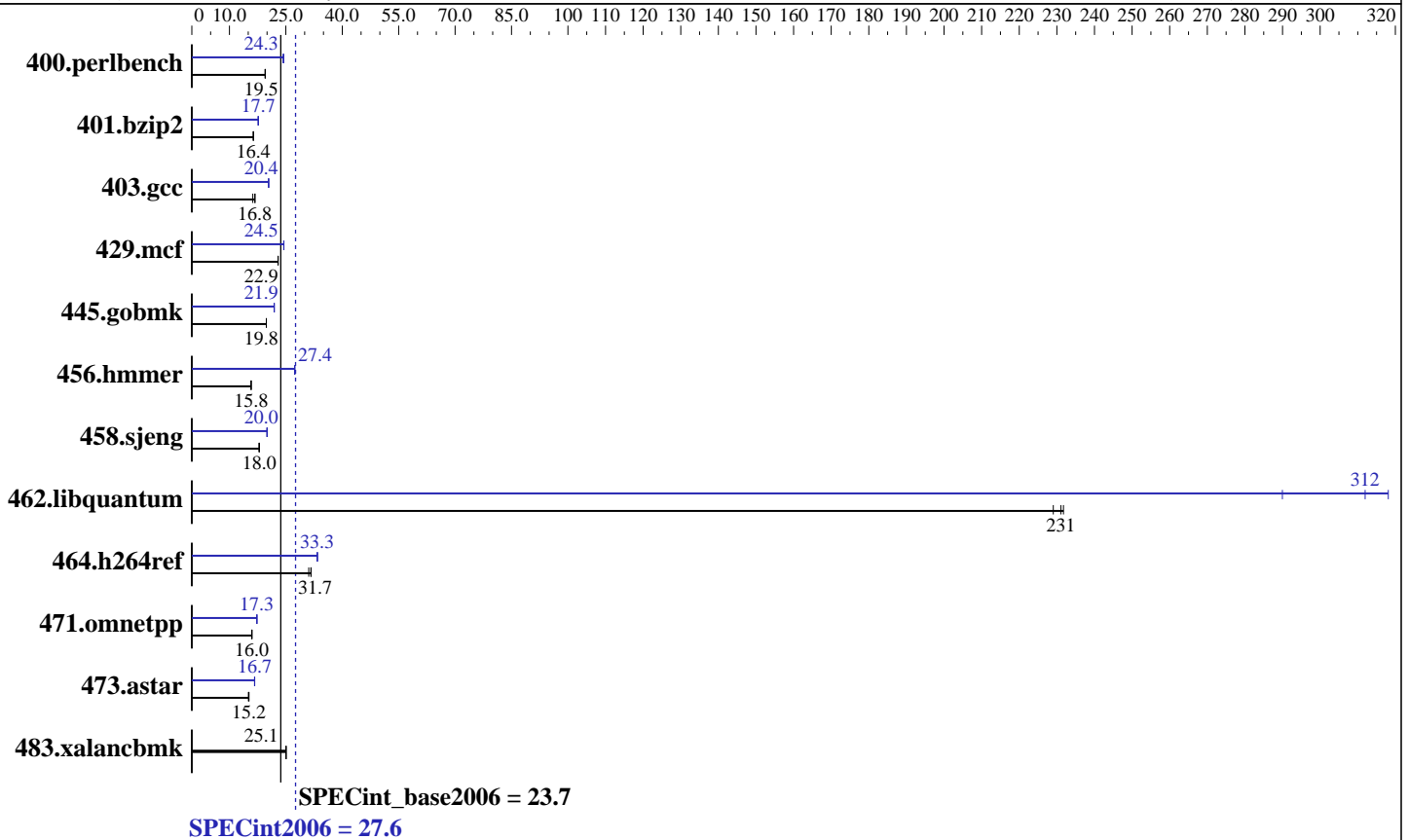
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Aug-2008

Hardware Availability: Aug-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon X5472  
 CPU Characteristics: 1600MHz FSB  
 CPU MHz: 3000  
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (4\*4GB Dual-rank PC2-6400 CL5-5-5 FB-DIMMs)  
 Disk Subsystem: SATA, 500 GB, 7200 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: SmartHeap 8.1 32-bit Library for Linux Binutils 2.17.10.50



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b>500</b>	<b>19.5</b>	500	19.5	502	19.5	<b>402</b>	<b>24.3</b>	402	24.3	400	24.4
401.bzip2	590	16.4	<b>590</b>	<b>16.4</b>	590	16.4	546	17.7	<b>546</b>	<b>17.7</b>	547	17.7
403.gcc	496	16.2	<b>480</b>	<b>16.8</b>	479	16.8	394	20.4	394	20.4	<b>394</b>	<b>20.4</b>
429.mcf	<b>398</b>	<b>22.9</b>	398	22.9	398	22.9	372	24.5	373	24.5	<b>373</b>	<b>24.5</b>
445.gobmk	<b>529</b>	<b>19.8</b>	530	19.8	529	19.8	479	21.9	479	21.9	<b>479</b>	<b>21.9</b>
456.hammer	<b>592</b>	<b>15.8</b>	592	15.8	592	15.8	341	27.4	341	27.4	<b>341</b>	<b>27.4</b>
458.sjeng	678	17.8	673	18.0	<b>674</b>	<b>18.0</b>	<b>605</b>	<b>20.0</b>	604	20.0	606	20.0
462.libquantum	90.5	229	<b>89.7</b>	<b>231</b>	89.4	232	<b>66.4</b>	<b>312</b>	65.1	318	71.5	290
464.h264ref	698	31.7	712	31.1	<b>699</b>	<b>31.7</b>	<b>664</b>	<b>33.3</b>	662	33.4	664	33.3
471.omnetpp	392	16.0	<b>391</b>	<b>16.0</b>	391	16.0	<b>361</b>	<b>17.3</b>	361	17.3	361	17.3
473.astar	467	15.0	<b>463</b>	<b>15.2</b>	463	15.2	420	16.7	421	16.7	<b>420</b>	<b>16.7</b>
483.xalancbmk	276	25.0	275	25.1	<b>275</b>	<b>25.1</b>	276	25.0	275	25.1	<b>275</b>	<b>25.1</b>

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

## Compiler Invocation Notes

OMP\_NUM\_THREADS set to number of cores  
KMP\_STACK\_SIZE set to 64M  
KMP\_AFFINITY set to physical,0

## Operating System Notes

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

## Platform Notes

BIOS configuration :  
Hardware Prefetch : Enabled; Adjacent Sector Prefetch : Enabled

## 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 -vec-guard-write -parallel -par-runtime-control

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 -prefetch  
 -auto-ilp32

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

429.mcf: -fast -prefetch

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  
 -auto-ilp32

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

462.libquantum: -fast -unroll4 -Ob0 -opt-streaming-stores always  
 -vec-guard-write -opt-malloc-options=3 -parallel  
 -par-runtime-control

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.20090714.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.20090714.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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