



# SPEC<sup>®</sup> CINT2006 Result

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## Sun Microsystems Sun Blade X6250

SPECint<sup>®</sup>\_rate2006 = 98.7

SPECint\_rate\_base2006 = 80.3

CPU2006 license: 6

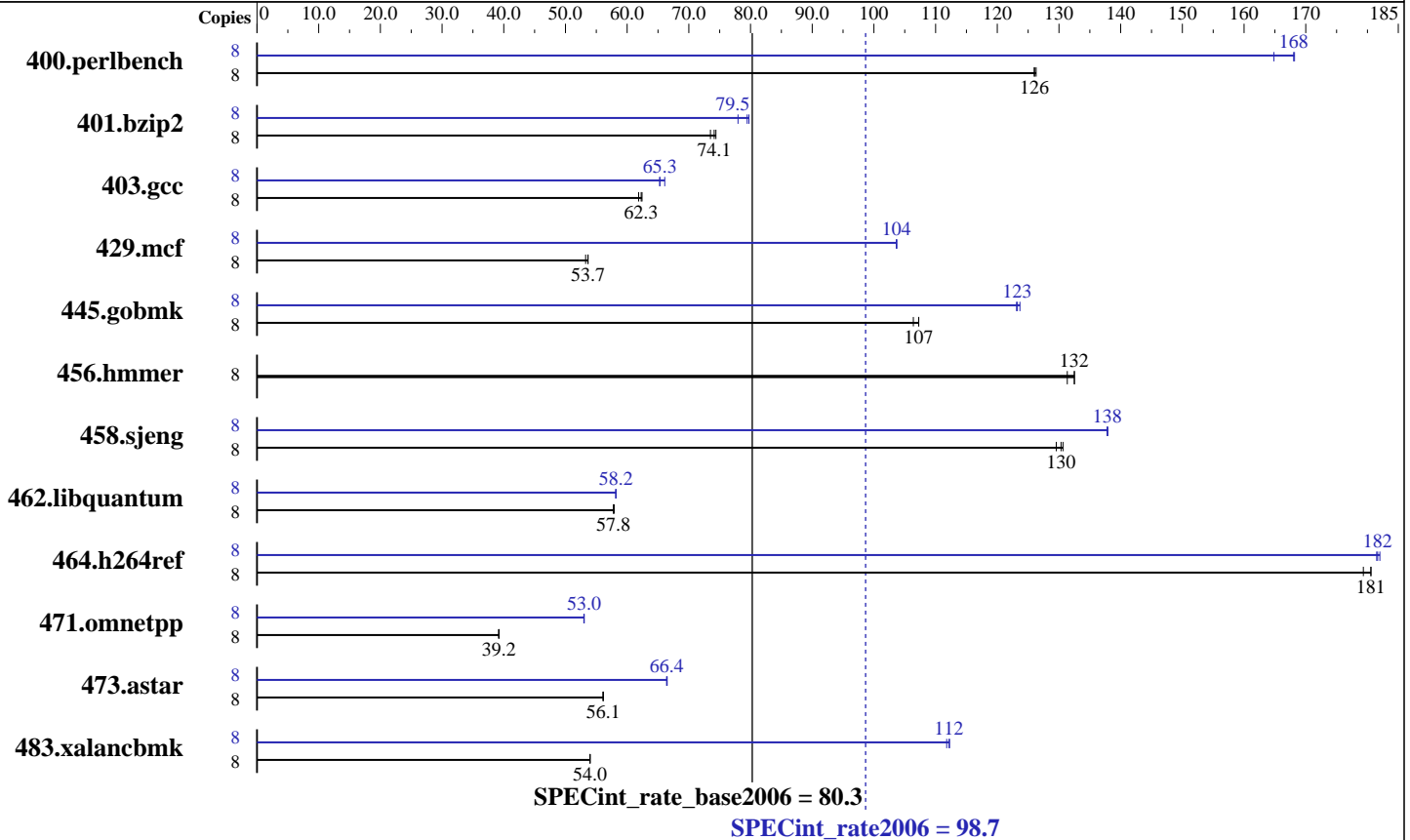
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Jun-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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	620	126	619	126	<b>620</b>	<b>126</b>	8	<b>465</b>	<b>168</b>	474	165	465	168
401.bzip2	8	1050	73.5	1038	74.4	<b>1042</b>	<b>74.1</b>	8	990	78.0	968	79.7	<b>972</b>	<b>79.5</b>
403.gcc	8	1041	61.9	<b>1034</b>	<b>62.3</b>	1032	62.4	8	<b>986</b>	<b>65.3</b>	974	66.1	987	65.3
429.mcf	8	1370	53.3	1360	53.7	<b>1360</b>	<b>53.7</b>	8	704	104	<b>704</b>	<b>104</b>	704	104
445.gobmk	8	789	106	782	107	<b>782</b>	<b>107</b>	8	682	123	679	124	<b>681</b>	<b>123</b>
456.hammer	8	568	131	<b>563</b>	<b>132</b>	563	133	8	568	131	<b>563</b>	<b>132</b>	563	133
458.sjeng	8	747	130	741	131	<b>743</b>	<b>130</b>	8	<b>702</b>	<b>138</b>	702	138	702	138
462.libquantum	8	2863	57.9	<b>2868</b>	<b>57.8</b>	2869	57.8	8	<b>2849</b>	<b>58.2</b>	2850	58.2	2849	58.2
464.h264ref	8	987	179	980	181	<b>981</b>	<b>181</b>	8	973	182	975	181	<b>975</b>	<b>182</b>
471.omnetpp	8	1275	39.2	1276	39.2	<b>1275</b>	<b>39.2</b>	8	944	53.0	943	53.0	<b>943</b>	<b>53.0</b>
473.astar	8	1001	56.1	<b>1000</b>	<b>56.1</b>	1000	56.1	8	845	66.5	<b>845</b>	<b>66.4</b>	846	66.4
483.xalancbmk	8	1023	54.0	1022	54.0	<b>1023</b>	<b>54.0</b>	8	494	112	<b>492</b>	<b>112</b>	492	112

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

## Operating System Notes

Processes were bound to cores using "submit" and "pbind".

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

## Platform Notes

BIOS configuration:  
Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

## Base Compiler Invocation

C benchmarks:  
cc

C++ benchmarks:  
CC



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## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_SOLARIS\_X64  
401.bzip2: -DSPEC\_CPU\_LP64  
403.gcc: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_SOLARIS  
429.mcf: -DSPEC\_CPU\_LP64  
445.gobmk: -DSPEC\_CPU\_LP64  
456.hmmmer: -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

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## Peak Portability Flags (Continued)

456.hmmr: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_SOLARIS  
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 -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.hmmr: 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 other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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