## Sun Microsystems

### Sun Blade X6270 (Intel Xeon X5570 2.93GHz)

- **CPU2006 license:** 6
- **Test sponsor:** Sun Microsystems
- **Tested by:** Sun Microsystems
- **Test date:** Mar-2009
- **Hardware Availability:** Apr-2009
- **Software Availability:** Nov-2008

### Hardware

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>SPECint2006</th>
<th>SPECint_base2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>perlbench</td>
<td>39.7</td>
<td></td>
</tr>
<tr>
<td>bzip2</td>
<td>29.8</td>
<td></td>
</tr>
<tr>
<td>gcc</td>
<td>23.8</td>
<td></td>
</tr>
<tr>
<td>mcf</td>
<td>35.1</td>
<td></td>
</tr>
<tr>
<td>gobmk</td>
<td>27.5</td>
<td></td>
</tr>
<tr>
<td>hmer</td>
<td>22.9</td>
<td></td>
</tr>
<tr>
<td>sjeng</td>
<td>25.4</td>
<td></td>
</tr>
<tr>
<td>libquantum</td>
<td>39.7</td>
<td></td>
</tr>
</tbody>
</table>

### Software

- **Operating System:** SuSe Linux Enterprise Server 10 (x86_64)
- **Compiler:** Intel C++ and Fortran Compiler 11.0 for Linux
- **Auto Parallel:** Yes
- **File System:** ReiserFS
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 32-bit
- **Peak Pointers:** 32/64-bit
- **Other Software:** Microquill SmartHeap V8.1

### CPU Details

- **CPU Name:** Intel Xeon X5570
- **CPU Characteristics:** Intel Turbo Boost Technology up to 3.33 GHz
- **CPU MHz:** 2933
- **FPU:** Integrated
- **CPU(s) enabled:** 8 cores, 2 chips, 4 cores/chip, 2 threads/core
- **Primary Cache:** 32 KB I + 32 KB D on chip per core
- **Secondary Cache:** 256 KB I+D on chip per core
- **L3 Cache:** 8 MB I+D on chip per chip
- **Other Cache:** None
- **Memory:** 24 GB (6 x 4 GB DDR3-1333)
- **Disk Subsystem:** 134 GB using 1x ST914602SSUN146GSAS SAS 10 K RPM
- **Other Hardware:** None

### System Details

- **Software Availability:** Nov-2008
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**SPECint_base2006 =** 30.4
**SPEC CINT2006 Result**

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### Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>410</td>
<td>23.8</td>
<td>408</td>
<td>23.9</td>
<td>410</td>
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<tr>
<td>401.bzip2</td>
<td>547</td>
<td>17.6</td>
<td>547</td>
<td>17.6</td>
<td>547</td>
<td>17.6</td>
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<tr>
<td>403.gcc</td>
<td>345</td>
<td>23.3</td>
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<td>23.3</td>
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<td>429.mcf</td>
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<td>195</td>
<td>46.7</td>
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<tr>
<td>445.gobmk</td>
<td>465</td>
<td>22.6</td>
<td>484</td>
<td>22.6</td>
<td>464</td>
<td>22.6</td>
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<tr>
<td>456.hmmer</td>
<td>518</td>
<td>18.0</td>
<td>517</td>
<td>18.0</td>
<td>515</td>
<td>18.1</td>
</tr>
<tr>
<td>458.sjeng</td>
<td>505</td>
<td>23.9</td>
<td>503</td>
<td>24.1</td>
<td>504</td>
<td>24.0</td>
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<tr>
<td>462.libquantum</td>
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<td>64.9</td>
<td>319</td>
<td>63.9</td>
<td>325</td>
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<tr>
<td>464.h264ref</td>
<td>716</td>
<td>31.0</td>
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<td>31.0</td>
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<td>31.0</td>
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<tr>
<td>471.omnetpp</td>
<td>274</td>
<td>22.8</td>
<td>273</td>
<td>22.9</td>
<td>273</td>
<td>22.9</td>
</tr>
<tr>
<td>473.astar</td>
<td>400</td>
<td>17.5</td>
<td>403</td>
<td>17.4</td>
<td>405</td>
<td>17.4</td>
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<tr>
<td>483.xalancbmk</td>
<td>198</td>
<td>34.9</td>
<td>196</td>
<td>35.1</td>
<td>196</td>
<td>35.3</td>
</tr>
</tbody>
</table>

**Base Compiler Invocation**

**C benchmarks:**
- icc

**C++ benchmarks:**
- icpc

**Base Portability Flags**

400.perlbench: -DSPEC_CPU_LINUX_IA32

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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 used.

**General Notes**

OMP_NUM_THREADS set to number of cores  
KMP_AFFINITY set to "physical,0"

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Contenido en la página siguiente.

Standard Performance Evaluation Corporation  
info@spec.org  
http://www.spec.org/
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Base Portability Flags (Continued)
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags
C benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel
-par-runtime-control -opt-prefetch
C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/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/Compiler/11.0/042/bin/intel64/icc
    456.hmmer: /opt/intel/Compiler/11.0/042/bin/intel64/icc
C++ benchmarks:
icpc

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
SPEC CINT2006 Result

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Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-prefetch

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-prefetch -auto-ilp32

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc -opt-malloc-options=3

429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -O3 -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2 -ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-use(pass 2) -unroll14

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-use(pass 2) -unroll2

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2) -no-prec-div(pass 2) -ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs -L/spec/cpu2006.1.1/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


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