**SPEC® CINT2006 Result**

---

**Fujitsu Siemens Computers**

**PRIMERGY TX300 S3, Intel Xeon processor 5130, 2.0 GHz**

**SPECint rate2006 = 45.7**

**SPECint_rate_base2006 = 43.5**

---

**CPU2006 license:** 22

**Test date:** May-2007

**Test sponsor:** Fujitsu Siemens Computers

**Hardware Availability:** Jul-2006

**Tested by:** Fujitsu Siemens Computers

**Software Availability:** Feb-2007

---

### SPECint Rate

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Rate Base</th>
<th>Rate 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>4</td>
<td>36.3</td>
<td>53.9</td>
</tr>
<tr>
<td>401.bzip2</td>
<td>4</td>
<td>34.4</td>
<td>44.9</td>
</tr>
<tr>
<td>403.gcc</td>
<td>4</td>
<td>42.4</td>
<td></td>
</tr>
<tr>
<td>429.mcf</td>
<td>4</td>
<td>43.6</td>
<td>56.7</td>
</tr>
<tr>
<td>445.gobmk</td>
<td>4</td>
<td>40.2</td>
<td>52.8</td>
</tr>
<tr>
<td>456.hmmer</td>
<td>4</td>
<td>33.5</td>
<td>53.5</td>
</tr>
<tr>
<td>458.sjeng</td>
<td>4</td>
<td>29.7</td>
<td>49.3</td>
</tr>
<tr>
<td>462.libquantum</td>
<td>4</td>
<td>28.9</td>
<td>82.4</td>
</tr>
<tr>
<td>464.h264ref</td>
<td>4</td>
<td></td>
<td>81.5</td>
</tr>
<tr>
<td>471.omnetpp</td>
<td>4</td>
<td>35.7</td>
<td></td>
</tr>
<tr>
<td>473.astar</td>
<td>4</td>
<td>32.8</td>
<td>33.3</td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>4</td>
<td>32.8</td>
<td>57.5</td>
</tr>
</tbody>
</table>

---

### Hardware

- **CPU Name:** Intel Xeon 5130
- **CPU Characteristics:** 1333 MHz system bus
- **CPU MHz:** 2000
- **FPU:** Integrated
- **CPU(s) enabled:** 4 cores, 2 chips, 2 cores/chip
- **CPU(s) orderable:** 1.2 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:** 8 GB (8x1 GB DDR2 PC2-5300F, 2 rank, CAS 5-5-5, with ECC)
- **Disk Subsystem:** SAS (73GB 15400 rpm)
- **Other Hardware:** None

---

### Software

- **Operating System:** 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86_64
- **Compiler:** Intel C++ Compiler for IA32/EM64T application, Version 9.1 - Build 20070215, Package-ID: l_cc_p_9.1.047
- **Auto Parallel:** No
- **File System:** ext2
- **System State:** Multiuser, Runlevel 3
- **Base Pointers:** 32-bit
- **Peak Pointers:** 32/64-bit
- **Other Software:** Smart Heap Library, Version 8.1

---

Standard Performance Evaluation Corporation
info@spec.org
http://www.spec.org/
SPEC CINT2006 Result

Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor 5130, 2.0 GHz

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

SPECint_rate2006 = 45.7
SPECint_rate_base2006 = 43.5

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</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>4</td>
<td>728</td>
<td>53.7</td>
<td>725</td>
<td>53.9</td>
<td>722</td>
<td>54.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>401.bzip2</td>
<td>4</td>
<td>1120</td>
<td>34.5</td>
<td>1121</td>
<td>34.4</td>
<td>1122</td>
<td>34.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>403.gcc</td>
<td>4</td>
<td>717</td>
<td>44.9</td>
<td>719</td>
<td>44.8</td>
<td>716</td>
<td>45.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>429.mcf</td>
<td>4</td>
<td>837</td>
<td>43.6</td>
<td>837</td>
<td>43.6</td>
<td>838</td>
<td>43.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>445.gobmk</td>
<td>4</td>
<td>797</td>
<td>52.6</td>
<td>795</td>
<td>52.8</td>
<td>788</td>
<td>53.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>456.hmmer</td>
<td>4</td>
<td>1113</td>
<td>33.5</td>
<td>1113</td>
<td>33.5</td>
<td>1110</td>
<td>33.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>458.sjeng</td>
<td>4</td>
<td>976</td>
<td>49.6</td>
<td>982</td>
<td>49.3</td>
<td>982</td>
<td>49.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>462.libquantum</td>
<td>4</td>
<td>2865</td>
<td>28.9</td>
<td>2863</td>
<td>28.9</td>
<td>2867</td>
<td>28.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>464.h264ref</td>
<td>4</td>
<td>1086</td>
<td>81.5</td>
<td>1087</td>
<td>81.4</td>
<td>1086</td>
<td>81.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>471.omnetpp</td>
<td>4</td>
<td>763</td>
<td>32.8</td>
<td>761</td>
<td>32.8</td>
<td>762</td>
<td>32.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>473.astar</td>
<td>4</td>
<td>857</td>
<td>32.8</td>
<td>857</td>
<td>32.8</td>
<td>857</td>
<td>32.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>4</td>
<td>480</td>
<td>57.5</td>
<td>481</td>
<td>57.4</td>
<td>480</td>
<td>57.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 '/usr/bin/taskset' used to bind processes to CPUs

General Notes

The system bus runs at 1333 MHz

All binaries were built with 32-bit Intel compiler except: 401.bzip2, 456.hmmer and 462.libquantum in peak were built with 64-bit Intel compiler by changing the path for include and library files.

BIOS configuration:
Adjacent Sector Prefetch = Disable

This result was measured on the PRIMERGY RX300 S3. The PRIMERGY RX300 S3 and the PRIMERGY TX300 S3 are electronically equivalent.

For information about Fujitsu Siemens Computers in your country please see: http://www.fujitsu-siemens.com/countries

Base Compiler Invocation

C benchmarks:

icc
Fujitsu Siemens Computers
PRIMERGY TX300 S3, Intel Xeon processor 5130, 2.0 GHz

SPECint\_rate2006 = 45.7
SPECint\_rate\_base2006 = 43.5

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: May-2007
Hardware Availability: Jul-2006
Software Availability: Feb-2007

**Base Compiler Invocation (Continued)**

C++ benchmarks:
icpc

**Base Portability Flags**

400.perlbench: -DSPEC\_CPU\_LINUX\_X64
462.libquantum: -DSPEC\_CPU\_LINUX
483.xalancbmk: -DSPEC\_CPU\_LINUX

**Base Optimization Flags**

C benchmarks:
-\fast
C++ benchmarks:
-xP -O3 -ipo -no-prec-div -L/opt/SmartHeap\_8\_1/lib -lsmartheap

**Peak Compiler Invocation**

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/9.1.047/bin/icc
   -I/opt/intel/cce/9.1.047/include
   -L/opt/intel/cce/9.1.047/lib

456.hmmer: /opt/intel/cce/9.1.047/bin/icc
   -I/opt/intel/cce/9.1.047/include
   -L/opt/intel/cce/9.1.047/lib

462.libquantum: /opt/intel/cce/9.1.047/bin/icc
   -I/opt/intel/cce/9.1.047/include
   -L/opt/intel/cce/9.1.047/lib

C++ benchmarks:
icpc

**Peak Portability Flags**

400.perlbench: -DSPEC\_CPU\_LINUX\_X64
401.bzip2: -DSPEC\_CPU\_LP64

Continued on next page
Fujitsu Siemens Computers
PRIMERGY TX300 S3, Intel Xeon processor 5130, 2.0 GHz

SPECint_rate2006 = 45.7
SPECint_rate_base2006 = 43.5

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: May-2007
Hardware Availability: Jul-2006
Software Availability: Feb-2007

Peak Portability Flags (Continued)

456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:
400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast
401.bzip2: -fast
403.gcc: basepeak = yes
429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8_1/lib -lsmartheap
445.gobmk: Same as 429.mcf
456.hmmer: Same as 400.perlbench
458.sjeng: Same as 429.mcf
462.libquantum: Same as 400.perlbench
464.h264ref: Same as 429.mcf

C++ benchmarks:
471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -xP -O3 -ipo
-no-prec-div -L/opt/SmartHeap_8_1/lib -lsmartheap
473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8_1/lib -lsmartheap
483.xalancbmk: basepeak = yes

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:
http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.09.xml

Fujitsu Siemens Computers

PRIMERGY TX300 S3, Intel Xeon processor 5130, 2.0 GHz

SPECint_rate2006 = 45.7
SPECint_rate_base2006 = 43.5

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: May-2007
Hardware Availability: Jul-2006
Software Availability: Feb-2007

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.