ASUS Computer International  
(Test Sponsor: Intel Corporation)

ASUS P5K3 motherboard (Intel Core 2 Duo E6750)

SPECint®2006 = 20.5  
SPECint_base2006 = 18.3

Hardware

<table>
<thead>
<tr>
<th>CPU Name:</th>
<th>Intel Core 2 Duo E6750</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Characteristics:</td>
<td>2.66 GHz, 1333 MHz bus</td>
</tr>
<tr>
<td>CPU MHz:</td>
<td>2666</td>
</tr>
<tr>
<td>FPU:</td>
<td>Integrated</td>
</tr>
<tr>
<td>CPU(s) enabled:</td>
<td>2 cores, 1 chip, 2 cores/chip</td>
</tr>
<tr>
<td>CPU(s) orderable:</td>
<td>1 chip</td>
</tr>
<tr>
<td>Primary Cache:</td>
<td>32 KB I + 32 KB D on chip per core</td>
</tr>
<tr>
<td>Secondary Cache:</td>
<td>4 MB I+D on chip per chip</td>
</tr>
<tr>
<td>L3 Cache:</td>
<td>None</td>
</tr>
<tr>
<td>Other Cache:</td>
<td>None</td>
</tr>
<tr>
<td>Memory:</td>
<td>2 GB (2x1GB ELPIDA PC3-8500U-7-7-7-20)</td>
</tr>
<tr>
<td>Disk Subsystem:</td>
<td>Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II</td>
</tr>
<tr>
<td>Other Hardware:</td>
<td>None</td>
</tr>
</tbody>
</table>

Software

| Operating System: | Windows Vista32 Ultimate |
| Compiler: | Intel C++ Compiler for IA32 version 10.0 |
| Build 20070426 Package ID: W_CC_P_10.0.025 |
| Intel Fortran Compiler for IA32 version 10.0 |
| Build 20070426 Package ID: W_FC_P_10.0.025 |
| Microsoft Visual Studio.Net 2003 (for libraries) |
| Auto Parallel: | No |
| File System: | NTFS |
| System State: | Default |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32-bit |
| Other Software: | SmartHeap Library Version 8.0 from http://www.microquill.com/ |
SPEC CINT2006 Result

ASUS Computer International
(Test Sponsor: Intel Corporation)

ASUS P5K3 motherboard (Intel Core 2 Duo E6750)

SPECint2006 = 20.5
SPECint_base2006 = 18.3

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jul-2007
Hardware Availability: Jul-2007
Software Availability: Aug-2006

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Base</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Peak</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.perlbench</td>
<td>506</td>
<td>19.3</td>
<td>506</td>
<td>19.3</td>
<td></td>
<td></td>
<td>440</td>
<td>22.2</td>
<td>441</td>
<td>22.2</td>
</tr>
<tr>
<td>401.bzip2</td>
<td>669</td>
<td>14.4</td>
<td>670</td>
<td>14.4</td>
<td></td>
<td></td>
<td>642</td>
<td>15.0</td>
<td>640</td>
<td>15.1</td>
</tr>
<tr>
<td>403.gcc</td>
<td>643</td>
<td>12.5</td>
<td>635</td>
<td>12.7</td>
<td>637</td>
<td>12.6</td>
<td>424</td>
<td>19.0</td>
<td>411</td>
<td>19.6</td>
</tr>
<tr>
<td>429.mcf</td>
<td>349</td>
<td>26.1</td>
<td>349</td>
<td>26.1</td>
<td></td>
<td></td>
<td>349</td>
<td>26.1</td>
<td>349</td>
<td>26.1</td>
</tr>
<tr>
<td>445.gobmk</td>
<td>584</td>
<td>18.0</td>
<td>584</td>
<td>18.0</td>
<td></td>
<td></td>
<td>527</td>
<td>19.9</td>
<td>527</td>
<td>19.9</td>
</tr>
<tr>
<td>456.hmmer</td>
<td>663</td>
<td>14.1</td>
<td>663</td>
<td>14.1</td>
<td></td>
<td></td>
<td>656</td>
<td>14.2</td>
<td>656</td>
<td>14.2</td>
</tr>
<tr>
<td>458.sjeng</td>
<td>750</td>
<td>16.1</td>
<td>750</td>
<td>16.1</td>
<td></td>
<td></td>
<td>669</td>
<td>18.1</td>
<td>669</td>
<td>18.1</td>
</tr>
<tr>
<td>462.libquantum</td>
<td>768</td>
<td>27.0</td>
<td>768</td>
<td>27.0</td>
<td></td>
<td></td>
<td>547</td>
<td>37.9</td>
<td>547</td>
<td>37.9</td>
</tr>
<tr>
<td>464.h264ref</td>
<td>805</td>
<td>27.5</td>
<td>803</td>
<td>27.5</td>
<td></td>
<td></td>
<td>757</td>
<td>29.2</td>
<td>756</td>
<td>29.3</td>
</tr>
<tr>
<td>471.omnetpp</td>
<td>385</td>
<td>16.2</td>
<td>384</td>
<td>16.3</td>
<td>384</td>
<td>16.3</td>
<td>343</td>
<td>18.2</td>
<td>343</td>
<td>18.2</td>
</tr>
<tr>
<td>473.astar</td>
<td>508</td>
<td>13.8</td>
<td>508</td>
<td>13.8</td>
<td></td>
<td></td>
<td>472</td>
<td>14.9</td>
<td>472</td>
<td>14.9</td>
</tr>
<tr>
<td>483.xalancbmk</td>
<td>314</td>
<td>22.0</td>
<td>313</td>
<td>22.0</td>
<td></td>
<td></td>
<td>313</td>
<td>22.0</td>
<td>312</td>
<td>22.1</td>
</tr>
</tbody>
</table>

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

General Notes

Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 7/2007:
The system bus runs at 1333 MHz
System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX
Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
ASUS Computer International  
(Test Sponsor: Intel Corporation)  
ASUS P5K3 motherboard (Intel Core 2 Duo E6750)  

<table>
<thead>
<tr>
<th>SPECint2006</th>
<th>20.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECint_base2006</td>
<td>18.3</td>
</tr>
</tbody>
</table>

CPU2006 license: 13  
Test date: Jul-2007  
Test sponsor: Intel Corporation  
Hardware Availability: Jul-2007  
Tested by: Intel Corporation  
Software Availability: Aug-2006

### Base Optimization Flags

- **C benchmarks**: 
  ```
  -fast /F512000000 shlw32m.lib
  -link /FORCE:MULTIPLE
  ```

- **C++ benchmarks**: 
  ```
  -fast -Qcxx_features /F512000000 shlw32m.lib
  -link /FORCE:MULTIPLE
  ```

### Base Other Flags

- **C benchmarks**: 
  ```
  403.gcc: -Dalloca=_alloca
  ```

### Peak Compiler Invocation

- **C benchmarks**: 
  ```
  icl -Qvc7.1 -Qc99
  ```

- **C++ benchmarks**: 
  ```
  icl -Qvc7.1
  ```

### Peak Portability Flags

- **C benchmarks**: 
  ```
  403.gcc: -DSPEC_CPU_WIN32
  ```

### Peak Optimization Flags

- **C benchmarks**: 
  ```
  400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
  -Qprefetch /F512000000 shlw32m.lib
  -link /FORCE:MULTIPLE
  ```

  ```
  401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
  shlw32m.lib
  -link /FORCE:MULTIPLE
  ```

  ```
  403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
  -link /FORCE:MULTIPLE
  ```

  ```
  429.mcf: basepeak = yes
  ```

Continued on next page
ASUS Computer International  
(Test Sponsor: Intel Corporation)

ASUS P5K3 motherboard (Intel Core 2 Duo E6750)  

| SPECint2006 = 20.5 |
| SPECint_base2006 = 18.3 |

CPU2006 license: 13  
Test date: Jul-2007

Tested by: Intel Corporation  
Hardware Availability: Jul-2007

Test sponsor: Intel Corporation  
Software Availability: Aug-2006

Peak Optimization Flags (Continued)

445.gobmk:  
- -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo  
- -Qprec_div= -Qansi-alias /F512000000  
- -link /FORCE:MULTIPLE

456.hmmer:  
- -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2  
- -Qansi-alias /F512000000 shlw32m.lib  
- -link /FORCE:MULTIPLE

458.sjeng:  
- -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4  
- /F512000000 shlw32m.lib  
- -link /FORCE:MULTIPLE

462.libquantum:  
- -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4  
- -Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000  
shlw32m.lib  
- -link /FORCE:MULTIPLE

464.h264ref:  
Same as 456.hmmer

C++ benchmarks:
- -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
- -Qcxx_features /F512000000 shlw32m.lib  
- -link /FORCE:MULTIPLE

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.20090714.42.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.20090714.42.xml

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.
Originally published on 8 August 2007.