Apple Computer, Inc.  
iMac 20-inch 2.0GHz Intel Core Duo

**CPU2006 license:** 77  
**Test sponsor:** Apple Computer, Inc.  
**Tested by:** Apple Computer, Inc.

---

### SPECfp®2006 = 8.88  
**SPECfp_base2006 = 8.88**

<table>
<thead>
<tr>
<th>Application</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.bwaves</td>
<td></td>
</tr>
<tr>
<td>416.gamess</td>
<td>10.3</td>
</tr>
<tr>
<td>433.milc</td>
<td>7.35</td>
</tr>
<tr>
<td>434.zeusmp</td>
<td>8.92</td>
</tr>
<tr>
<td>435.gromacs</td>
<td>9.59</td>
</tr>
<tr>
<td>436.cactusADM</td>
<td>7.26</td>
</tr>
<tr>
<td>437.leslie3d</td>
<td>7.51</td>
</tr>
<tr>
<td>444.namd</td>
<td>7.94</td>
</tr>
<tr>
<td>447.dealII</td>
<td>11.5</td>
</tr>
<tr>
<td>450.soplex</td>
<td>9.34</td>
</tr>
<tr>
<td>453.povray</td>
<td>10.6</td>
</tr>
<tr>
<td>454.calculix</td>
<td>5.86</td>
</tr>
<tr>
<td>459.GemsFDTD</td>
<td>8.10</td>
</tr>
<tr>
<td>465.tonto</td>
<td>7.35</td>
</tr>
<tr>
<td>470.lbm</td>
<td>8.00</td>
</tr>
<tr>
<td>481.wrf</td>
<td>10.5</td>
</tr>
<tr>
<td>482.sphinx3</td>
<td>9.91</td>
</tr>
</tbody>
</table>

---

**Hardware**

- **CPU Name:** Intel Core Duo T2500  
- **CPU Characteristics:** Integrated  
- **CPU MHz:** 2000  
- **FPU:** Integrated  
- **CPU(s) enabled:** 2 cores, 1 chip, 2 cores/chip  
- **CPU(s) orderable:** 1 chip  
- **Primary Cache:** 32 KB I + 32 KB D on chip per core  
- **Secondary Cache:** 2 MB I+D on chip per chip

---

**Software**

- **Operating System:** Mac OS X, v10.4.6  
- **Compiler:** Intel C++ Compiler for Mac OS X, v9.1  
- **Auto Parallel:** No  
- **File System:** HFS+  
- **System State:** Default  
- **Base Pointers:** 32-bit  
- **Peak Pointers:** 32-bit

---

Continued on next page
**SPEC CFP2006 Result**

Apple Computer, Inc.  
iMac 20-inch 2.0GHz Intel Core Duo  

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Base Seconds</th>
<th>Base Ratio</th>
<th>Peak Seconds</th>
<th>Peak Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.bwaves</td>
<td>947</td>
<td>14.4</td>
<td>952</td>
<td>14.3</td>
</tr>
<tr>
<td>416.gamess</td>
<td>1904</td>
<td>10.3</td>
<td>1904</td>
<td>10.3</td>
</tr>
<tr>
<td>433.milc</td>
<td>1254</td>
<td>7.32</td>
<td>1248</td>
<td>7.36</td>
</tr>
<tr>
<td>434.zeusmp</td>
<td>1019</td>
<td>8.93</td>
<td>1020</td>
<td>8.92</td>
</tr>
<tr>
<td>435.gromacs</td>
<td>745</td>
<td>9.59</td>
<td>745</td>
<td>9.59</td>
</tr>
<tr>
<td>436.cactusADM</td>
<td>1646</td>
<td>7.26</td>
<td>1645</td>
<td>7.26</td>
</tr>
<tr>
<td>437.leslie3d</td>
<td>1251</td>
<td>7.51</td>
<td>1251</td>
<td>7.52</td>
</tr>
<tr>
<td>444.namd</td>
<td>1010</td>
<td>7.94</td>
<td>1011</td>
<td>7.94</td>
</tr>
<tr>
<td>447.dealII</td>
<td>993</td>
<td>11.5</td>
<td>993</td>
<td>11.5</td>
</tr>
<tr>
<td>450.soplex</td>
<td>893</td>
<td>9.34</td>
<td>893</td>
<td>9.33</td>
</tr>
<tr>
<td>453.povray</td>
<td>503</td>
<td>10.6</td>
<td>503</td>
<td>10.6</td>
</tr>
<tr>
<td>454.calculix</td>
<td>1409</td>
<td>5.86</td>
<td>1409</td>
<td>5.86</td>
</tr>
<tr>
<td>459.GemsFDTD</td>
<td>1306</td>
<td>8.12</td>
<td>1310</td>
<td>8.10</td>
</tr>
<tr>
<td>465.tonto</td>
<td>1340</td>
<td>7.34</td>
<td>1340</td>
<td>7.35</td>
</tr>
<tr>
<td>470.lbm</td>
<td>1717</td>
<td>8.00</td>
<td>1716</td>
<td>8.00</td>
</tr>
<tr>
<td>481.wrf</td>
<td>1069</td>
<td>10.4</td>
<td>1069</td>
<td>10.5</td>
</tr>
<tr>
<td>482.sphinx3</td>
<td>1970</td>
<td>9.89</td>
<td>1967</td>
<td>9.91</td>
</tr>
</tbody>
</table>

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

**General Notes**

Memory Details:
- DIMM0/Bank0: 512MB, DDR2 SDRAM, 667 MHz, CL5
- DIMM1/Bank1: 512MB, DDR2 SDRAM, 667 MHz, CL5

**Base Compiler Invocation**

C benchmarks:
- icc

C++ benchmarks:
- icpc

Continued on next page
Apple Computer, Inc.
iMac 20-inch 2.0GHz Intel Core Duo

SPECfp2006 = 8.88
SPECfp_base2006 = 8.88

CPU2006 license: 77
Test sponsor: Apple Computer, Inc.
Tested by: Apple Computer, Inc.

Test date: Apr-2006
Hardware Availability: Jan-2006
Software Availability: Apr-2006

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

435.gromacs: -nofor_main
436.cactusADM: -nofor_main
454.calculix: -nofor_main
481.wrf: -DSPEC_CPU_MACOSX -DSPEC_CPU_MACOSX_INTEL
-DSPEC_CPU_CASE_FLAG

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Base Other Flags

C benchmarks:
-Wl,-stack_addr,0xF0000000 -Wl,-stack_size,0x3F000000

C++ benchmarks:
-Wl,-stack_addr,0xF0000000 -Wl,-stack_size,0x3F000000

Fortran benchmarks:
-Wl,-stack_addr,0xF0000000 -Wl,-stack_size,0x3F000000

Benchmarks using both Fortran and C:
-Wl,-stack_addr,0xF0000000 -Wl,-stack_size,0x3F000000
Apple Computer, Inc.
iMac 20-inch 2.0GHz Intel Core Duo

SPECfp2006 = 8.88
SPECfp_base2006 = 8.88

CPU2006 license: 77
Test sponsor: Apple Computer, Inc.
Tested by: Apple Computer, Inc.

Test date: Apr-2006
Hardware Availability: Jan-2006
Software Availability: Apr-2006

Peak Compiler Invocation

C benchmarks:
  icc
C++ benchmarks:
  icpc
Fortran benchmarks:
  ifort
Benchmarks using both Fortran and C:
  icc ifort

Peak Portability Flags

435.gromacs: -nofor_main
436.cactusADM: -nofor_main
454.calculix: -nofor_main
  481.wrf: -DSPEC_CPU_MACOSX -DSPEC_CPU_MACOSX_INTEL
            -DSPEC_CPU_CASE_FLAG

Peak Optimization Flags

C benchmarks:
  433.milc: basepeak = yes
  470.lbm: basepeak = yes
  482.sphinx3: basepeak = yes
C++ benchmarks:
  444.namd: basepeak = yes
  447.dealII: basepeak = yes
  450.soplex: basepeak = yes
  453.povray: basepeak = yes
Fortran benchmarks:
  410.bwaves: basepeak = yes
  416.gamess: basepeak = yes
Apple Computer, Inc.
iMac 20-inch 2.0GHz Intel Core Duo

SPECfp2006 = 8.88
SPECfp_base2006 = 8.88

CPU2006 license: 77
Test sponsor: Apple Computer, Inc.
Tested by: Apple Computer, Inc.

Test date: Apr-2006
Hardware Availability: Jan-2006
Software Availability: Apr-2006

Peak Optimization Flags (Continued)

434.zeusmp: basepeak = yes
437.leslie3d: basepeak = yes
459.GemsFDTD: basepeak = yes
465.tonto: basepeak = yes

Benchmarks using both Fortran and C:
435.gromacs: basepeak = yes
436.cactusADM: basepeak = yes
454.calculix: basepeak = yes
481.wrf: basepeak = yes

Peak Other Flags

C benchmarks:
-Wl,-stack_addr,0xF0000000  -Wl,-stack_size,0x3F000000

C++ benchmarks:
-Wl,-stack_addr,0xF0000000  -Wl,-stack_size,0x3F000000

Fortran benchmarks:
-Wl,-stack_addr,0xF0000000  -Wl,-stack_size,0x3F000000

Benchmarks using both Fortran and C:
-Wl,-stack_addr,0xF0000000  -Wl,-stack_size,0x3F000000

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/macosx-iccifort-v91-flags.xml
# SPEC CFP2006 Result

Apple Computer, Inc.  
iMac 20-inch 2.0GHz Intel Core Duo

<table>
<thead>
<tr>
<th>SPECfp2006</th>
<th>8.88</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECfp_base2006</td>
<td>8.88</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPU2006 license:</th>
<th>77</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test sponsor:</td>
<td>Apple Computer, Inc.</td>
</tr>
<tr>
<td>Tested by:</td>
<td>Apple Computer, Inc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test date:</th>
<th>Apr-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Availability:</td>
<td>Jan-2006</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Apr-2006</td>
</tr>
</tbody>
</table>

SPEC and SPECfp 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 v90.