



# SPEC® CFP2006 Result

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Lenovo Group Limited

(Test Sponsor: Intel Corporation)

SPECfp®2006 =

Not Run

Lenovo ThinkPad T43(Intel Core Duo T2400)

SPECfp\_base2006 =

8.39

CPU2006 license: 13

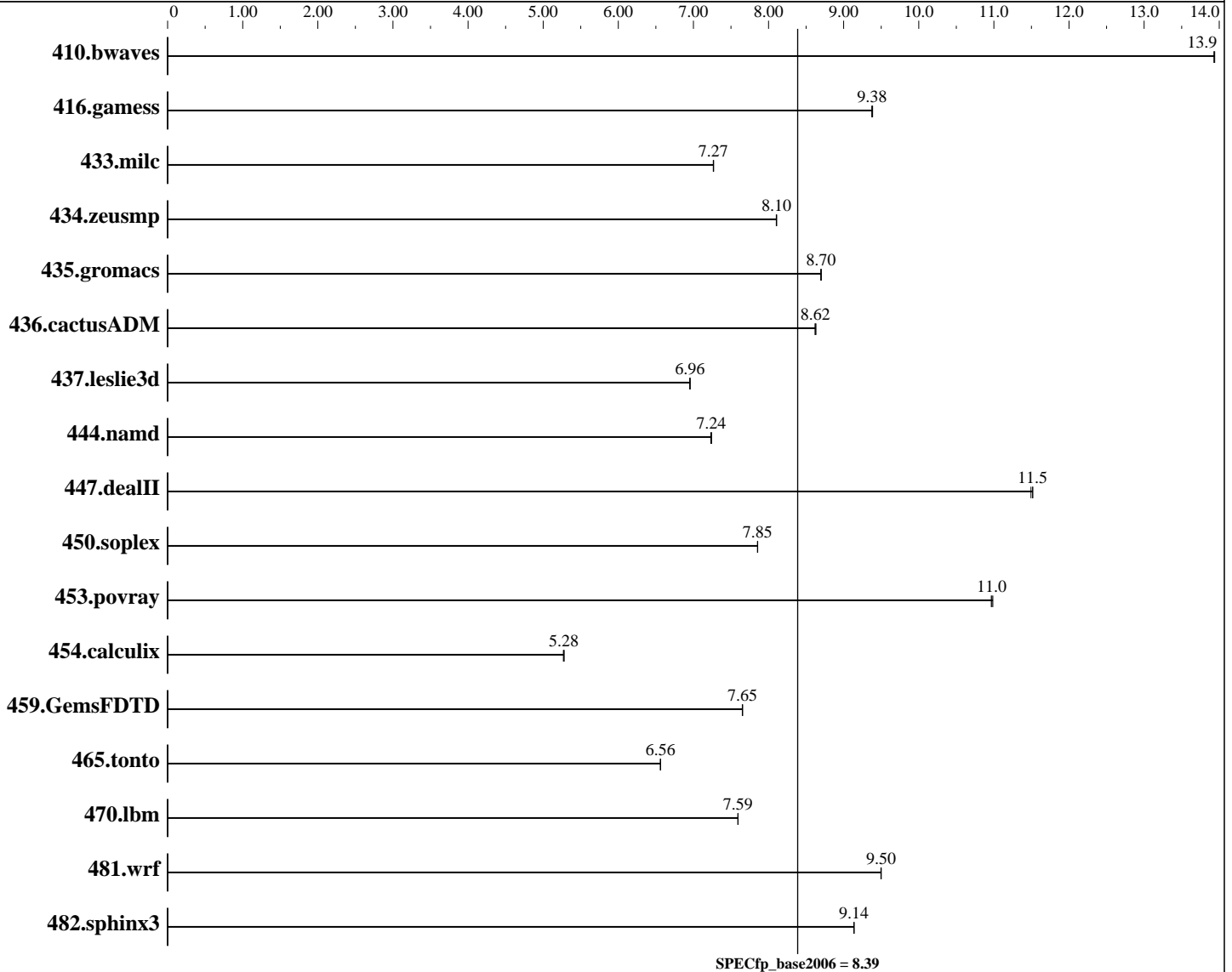
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jun-2007

Hardware Availability: Jun-2007

Software Availability: Feb-2007



### Hardware

CPU Name: Intel Core Duo T2400  
 CPU Characteristics: 1.83 GHz 2MB L2  
 CPU MHz: 1833  
 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

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### Software

Operating System: Windows Vista32 Business  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Build no 20060816  
 Intel Fortran Compiler for IA32 version 9.1  
 Build no 20060816  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: None  
Other Cache: None  
Memory: 2 GB (2x1 GB Qimonda\* PC-5300 DDR2-667 5-5-5-12)  
Disk Subsystem: Hitachi\* HTS721010G9 SATA 100GB 7200RPM  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: Not Applicable  
Other Software: SmartHeap library V7.4 from Microquill

## Results Table

| Benchmark     | Base        |             |             |             |             |             | Peak    |       |         |       |         |       |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-------|---------|-------|---------|-------|
|               | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves    | 975         | 13.9        | <b>975</b>  | <b>13.9</b> | 975         | 13.9        |         |       |         |       |         |       |
| 416.gamess    | 2086        | 9.39        | 2089        | 9.37        | <b>2087</b> | <b>9.38</b> |         |       |         |       |         |       |
| 433.milc      | 1263        | 7.27        | <b>1263</b> | <b>7.27</b> | 1264        | 7.26        |         |       |         |       |         |       |
| 434.zeusmp    | 1122        | 8.11        | 1123        | 8.10        | <b>1123</b> | <b>8.10</b> |         |       |         |       |         |       |
| 435.gromacs   | 820         | 8.70        | 821         | 8.70        | <b>821</b>  | <b>8.70</b> |         |       |         |       |         |       |
| 436.cactusADM | 1386        | 8.62        | 1384        | 8.63        | <b>1386</b> | <b>8.62</b> |         |       |         |       |         |       |
| 437.leslie3d  | 1352        | 6.95        | 1351        | 6.96        | <b>1352</b> | <b>6.96</b> |         |       |         |       |         |       |
| 444.namd      | 1109        | 7.23        | 1108        | 7.24        | <b>1108</b> | <b>7.24</b> |         |       |         |       |         |       |
| 447.dealII    | 995         | 11.5        | 993         | 11.5        | <b>993</b>  | <b>11.5</b> |         |       |         |       |         |       |
| 450.soplex    | 1062        | 7.85        | <b>1062</b> | <b>7.85</b> | 1062        | 7.86        |         |       |         |       |         |       |
| 453.povray    | 485         | 11.0        | <b>485</b>  | <b>11.0</b> | 484         | 11.0        |         |       |         |       |         |       |
| 454.calculix  | 1566        | 5.27        | <b>1564</b> | <b>5.28</b> | 1563        | 5.28        |         |       |         |       |         |       |
| 459.GemsFDTD  | 1387        | 7.65        | 1386        | 7.66        | <b>1386</b> | <b>7.65</b> |         |       |         |       |         |       |
| 465.tonto     | 1499        | 6.56        | 1500        | 6.56        | <b>1500</b> | <b>6.56</b> |         |       |         |       |         |       |
| 470.lbm       | 1809        | 7.59        | <b>1809</b> | <b>7.59</b> | 1810        | 7.59        |         |       |         |       |         |       |
| 481.wrf       | <b>1176</b> | <b>9.50</b> | 1176        | 9.50        | 1176        | 9.50        |         |       |         |       |         |       |
| 482.sphinx3   | <b>2133</b> | <b>9.14</b> | 2133        | 9.14        | 2133        | 9.14        |         |       |         |       |         |       |

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

## General Notes

Binaries built on Windows XP Professional w/ SP2  
Vista Power Profile set to High Performance

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

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## Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

## Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore

444.namd: -TP

447.dealII: -DDEAL\_II\_MEMBER\_VAR\_SPECIALIZATION\_BUG  
-DBOOST\_NO\_INTRINSIC\_WCHAR\_T

453.povray: -DSPEC\_CPU\_WINDOWS\_ICL

454.calculix: -DSPEC\_CPU\_NOZMODIFIER -Qlowercase

481.wrf: -DSPEC\_CPU\_WINDOWS\_ICL

## Base Optimization Flags

C benchmarks:

-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-fast /F950000000 -link /FORCE:MULTIPLE

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.20090714.00.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.20090714.00.xml>



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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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