SPEC® CFP2006 Result

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Intel Corporation

Lenovo Thinkpad T61

$SPECfp^{®}2006 =$ 16.4

$SPECfp\_base2006 =$ 15.9

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

Test date: Aug-2008
Hardware Availability: Sep-2007
Software Availability: Nov-2007

Benchmark	Result
410.bwaves	23.3 / 23.1
416.gamess	16.3 / 16.3
433.milc	10.9 / 11.0
434.zeusmp	16.8 / 15.9
435.gromacs	15.8 / 15.9
436.cactusADM	21.5 / 21.6
437.leslie3d	13.4
444.namd	14.3 / 14.4
447.dealII	17.3 / 17.2
450.soplex	13.5 / 13.6
453.povray	19.9 / 19.9
454.calculix	17.6 / 12.4
459.GemsFDTD	11.9
465.tonto	14.7 / 14.4
470.lbm	15.9 / 14.7
481.wrf	18.0
482.sphinx3	23.3 / 23.4

SPECfp_base2006 = 15.9

SPECfp2006 = 16.4

Hardware

CPU Name: Intel Core 2 Duo T7800
CPU Characteristics:
CPU MHz: 2600
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: 4 MB I+D on chip per chip

Continued on next page

Software

Operating System: Windows XP Professional SP2
Compiler: Intel C++ Compiler for IA32 version 10.1
Build 20070913 Package ID: w_cc_p_10.1.011
Intel Fortran Compiler for IA32 version 10.1
Build 20070913 Package ID: w_fc_p_10.1.011
Microsoft Visual Studio 2005 SP1 (for libraries)
Auto Parallel: Yes
File System: NTFS
System State: Default

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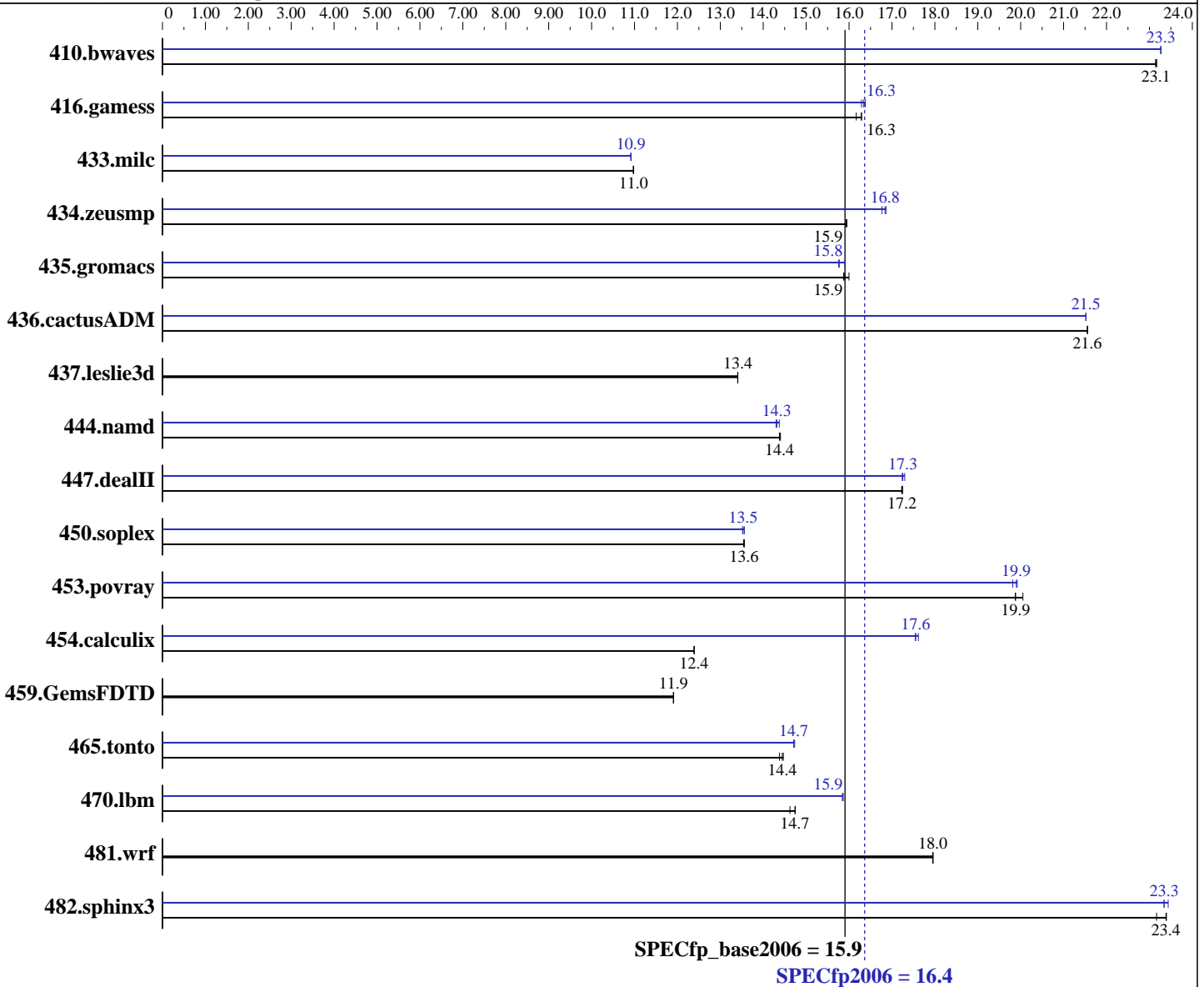SPECfp2006 =   16.4

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L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Micron PC2-6400 DDR2-800 CL5)
Disk Subsystem:	Hitachi Travelstar HTS721010G9SA00 SATA 100GB 7200RPM
Other Hardware:	None

Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	SmartHeap Library Version 8.1 from http://www.microquill.com/

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	587	23.2	**587**	**23.1**	587	23.1	584	23.3	**584**	**23.3**	584	23.3
416.gamess	**1202**	**16.3**	1211	16.2	1202	16.3	1202	16.3	**1199**	**16.3**	1196	16.4
433.milc	**836**	**11.0**	836	11.0	837	11.0	841	10.9	**841**	**10.9**	841	10.9
434.zeusmp	**571**	**15.9**	571	15.9	571	15.9	543	16.8	540	16.9	**540**	**16.8**
435.gromacs	450	15.9	**449**	**15.9**	446	16.0	449	15.9	453	15.8	**453**	**15.8**
436.cactusADM	554	21.6	**554**	**21.6**	554	21.6	555	21.5	555	21.5	**555**	**21.5**
437.leslie3d	701	13.4	**701**	**13.4**	701	13.4	701	13.4	**701**	**13.4**	701	13.4
444.namd	**558**	**14.4**	558	14.4	557	14.4	558	14.4	**560**	**14.3**	561	14.3
447.dealII	664	17.2	663	17.2	**664**	**17.2**	661	17.3	**663**	**17.3**	664	17.2
450.soplex	**615**	**13.6**	616	13.5	615	13.6	615	13.6	617	13.5	**616**	**13.5**
453.povray	**268**	**19.9**	268	19.9	265	20.1	268	19.8	**267**	**19.9**	267	19.9
454.calculix	**666**	**12.4**	666	12.4	666	12.4	468	17.6	470	17.5	**470**	**17.6**
459.GemsFDTD	891	11.9	**891**	**11.9**	891	11.9	891	11.9	**891**	**11.9**	891	11.9
465.tonto	684	14.4	**681**	**14.4**	680	14.5	668	14.7	669	14.7	**669**	**14.7**
470.lbm	940	14.6	932	14.7	**932**	**14.7**	867	15.8	**866**	**15.9**	866	15.9
481.wrf	622	17.9	622	18.0	**622**	**18.0**	622	17.9	622	18.0	**622**	**18.0**
482.sphinx3	841	23.2	833	23.4	**833**	**23.4**	832	23.4	835	23.3	**835**	**23.3**

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

General Notes

    Binaries were built on Windows Vista32
    The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Base Compiler Invocation

C benchmarks:
    icl -Qvc8 -Qc99

C++ benchmarks:
    icl -Qvc8

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Base Compiler Invocation (Continued)

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

Base Portability Flags

```
436.cactusADM: -Qlowercase /assume:underscore
     444.namd: -TP
    447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
    453.povray: -DSPEC_CPU_WINDOWS_ICL
   454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
       481.wrf: -DSPEC_CPU_WINDOWS_ICL
```

Base Optimization Flags

C benchmarks:
```
-fast -Qparallel /F1000000000 libguide40.lib
```

C++ benchmarks:
```
-fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib
libguide40.lib          -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-fast -Qparallel /F1000000000 libguide40.lib
```

Benchmarks using both Fortran and C:
```
-fast -Qparallel /F1000000000 libguide40.lib
```

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

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Peak Portability Flags

```
436.cactusADM: -Qlowercase /assume:underscore
   444.namd: -TP
  447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
  453.povray: -DSPEC_CPU_WINDOWS_ICL
 454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
     481.wrf: -DSPEC_CPU_WINDOWS_ICL
```

Peak Optimization Flags

C benchmarks:

```
   433.milc: -fast -Qunroll2 -Oa /F1000000000 libguide40.lib

   470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000
          libguide40.lib

 482.sphinx3: -fast -Qunroll2 /F1000000000 libguide40.lib
```

C++ benchmarks:

```
   444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
          libguide40.lib           -link /FORCE:MULTIPLE

  447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
          shlw32m.lib libguide40.lib        -link /FORCE:MULTIPLE

  450.soplex: -fast -Qparallel -Qcxx_features /F1000000000 shlw32m.lib
          libguide40.lib           -link /FORCE:MULTIPLE

  453.povray: -fast -Qunroll4 -Qcxx_features /F1000000000 shlw32m.lib
          libguide40.lib           -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
  410.bwaves: -fast -Qparallel -Qprefetch /F1000000000 libguide40.lib

  416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
          /F1000000000 libguide40.lib

  434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000
          libguide40.lib

 437.leslie3d: basepeak = yes

 459.GemsFDTD: basepeak = yes

   465.tonto: -fast -Qunroll4 -Qauto /F1000000000 libguide40.lib
```

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Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: `-fast -Oa -Qprefetch /F1000000000 libguide40.lib`

436.cactusADM: `-fast -Qunroll2 -Qparallel -Qprefetch /F1000000000 libguide40.lib`

454.calculix: `-fast -Qunroll-aggressive /F1000000000 libguide40.lib`

481.wrf: `basepeak = yes`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-revC.xml

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

Tested with SPEC CPU2006 v1.0.
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