SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

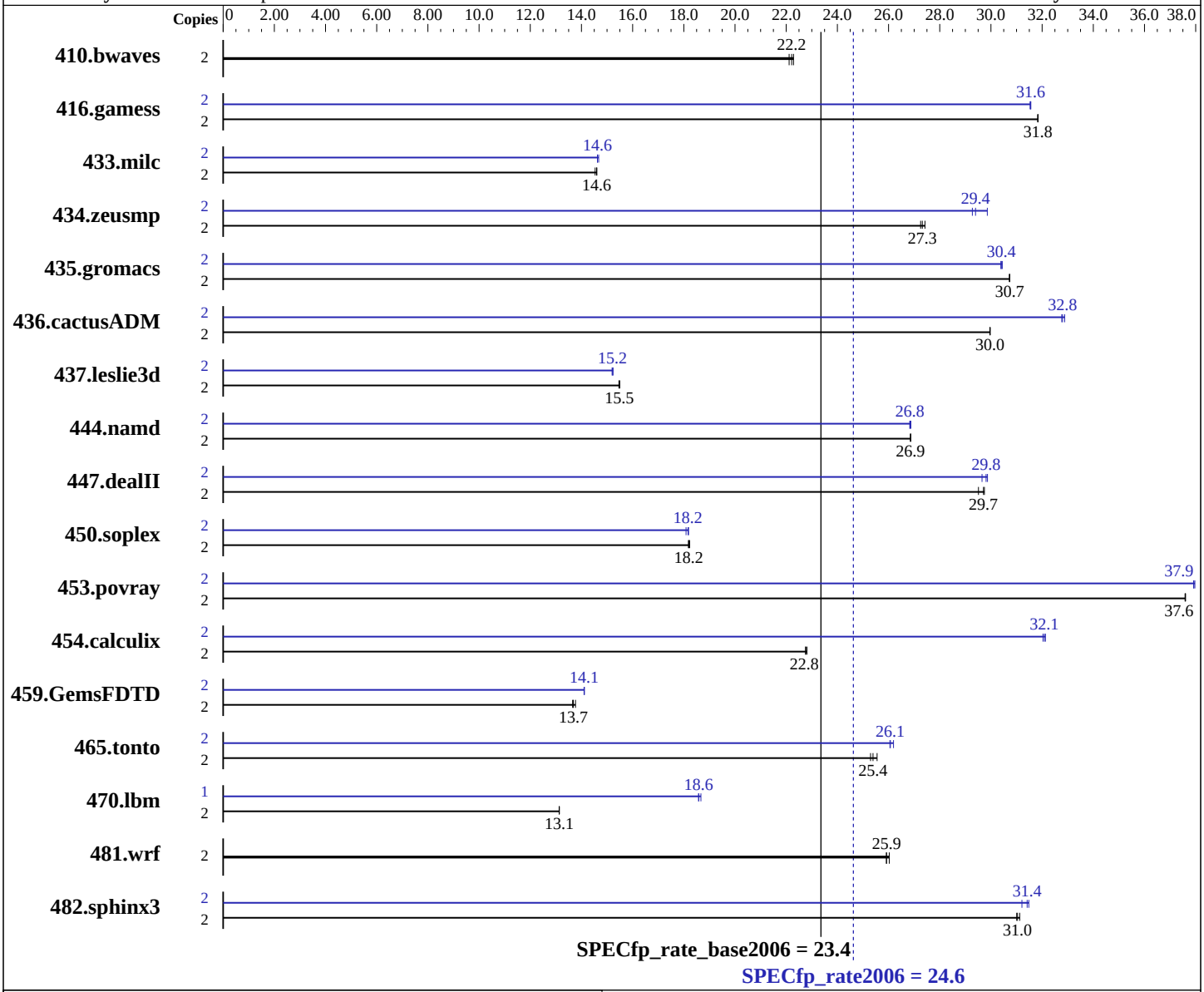
Lenovo ThinkPad T61 (Intel Core 2 Duo T9500)

SPECfp®_rate2006 = 24.6

SPECfp_rate_base2006 = 23.4

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

Test date: Dec-2007
Hardware Availability: Jan-2008
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Core 2 Duo T9500
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:	6 MB I+D on chip per chip

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Software

Operating System:	Windows Vista Ultimate (32-bit)
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:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Hynix DDR2-667 CL5)
Disk Subsystem: Hitachi 100 GB SATA, 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
SmartHeap Library Version 8.1 from http://www.microquill.com/

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1220	22.3	1229	22.1	**1224**	**22.2**	2	1220	22.3	1229	22.1	**1224**	**22.2**
416.gamess	2	1230	31.8	**1230**	**31.8**	1230	31.8	2	1241	31.6	**1241**	**31.6**	1242	31.5
433.milc	2	1257	14.6	1263	14.5	**1258**	**14.6**	2	1251	14.7	1255	14.6	**1255**	**14.6**
434.zeusmp	2	**666**	**27.3**	664	27.4	668	27.3	2	**619**	**29.4**	622	29.3	610	29.9
435.gromacs	2	**465**	**30.7**	465	30.7	465	30.7	2	469	30.4	**470**	**30.4**	470	30.4
436.cactusADM	2	**798**	**30.0**	798	30.0	797	30.0	2	727	32.9	**729**	**32.8**	729	32.8
437.leslie3d	2	**1214**	**15.5**	1216	15.5	1213	15.5	2	1234	15.2	1237	15.2	**1235**	**15.2**
444.namd	2	**597**	**26.9**	597	26.9	597	26.9	2	597	26.9	598	26.8	**598**	**26.8**
447.dealII	2	**770**	**29.7**	775	29.5	769	29.7	2	772	29.7	766	29.9	**768**	**29.8**
450.soplex	2	918	18.2	915	18.2	**917**	**18.2**	2	922	18.1	917	18.2	**918**	**18.2**
453.povray	2	283	37.6	283	37.6	**283**	**37.6**	2	280	38.0	**281**	**37.9**	281	37.9
454.calculix	2	**725**	**22.8**	725	22.8	723	22.8	2	514	32.1	**514**	**32.1**	515	32.0
459.GemsFDTD	2	**1551**	**13.7**	1554	13.7	1541	13.8	2	1504	14.1	1505	14.1	**1504**	**14.1**
465.tonto	2	778	25.3	**775**	**25.4**	770	25.6	2	751	26.2	755	26.1	**755**	**26.1**
470.lbm	2	2093	13.1	**2093**	**13.1**	2092	13.1	1	736	18.7	740	18.6	**740**	**18.6**
481.wrf	2	862	25.9	**862**	**25.9**	858	26.0	2	862	25.9	**862**	**25.9**	858	26.0
482.sphinx3	2	1252	31.1	**1256**	**31.0**	1257	31.0	2	1238	31.5	1249	31.2	**1241**	**31.4**

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

General Notes

```
The system bus runs at 800 MHz
Binaries were built on Windows Vista (32-bit)
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

C++ benchmarks:

```
icl -Qvc8
```

Continued on next page

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 /F1000000000

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

Fortran benchmarks:
-fast /F1000000000

Benchmarks using both Fortran and C:
-fast /F1000000000

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

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

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

482.sphinx3: -fast -Qunroll2 /F1000000000

C++ benchmarks:

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

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

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

453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

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

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

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch /F1000000000

465.tonto: -fast -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

Continued on next page

Peak Optimization Flags (Continued)

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

436.cactusADM: `-fast -Qunroll2 -Qprefetch /F1000000000`

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

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-ia32-intel64-linux-flags.20090714.09.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.20090714.09.xml`

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