SPEC® CFP2006 Result

ASUS Computer International

(Test Sponsor: Intel Corporation)

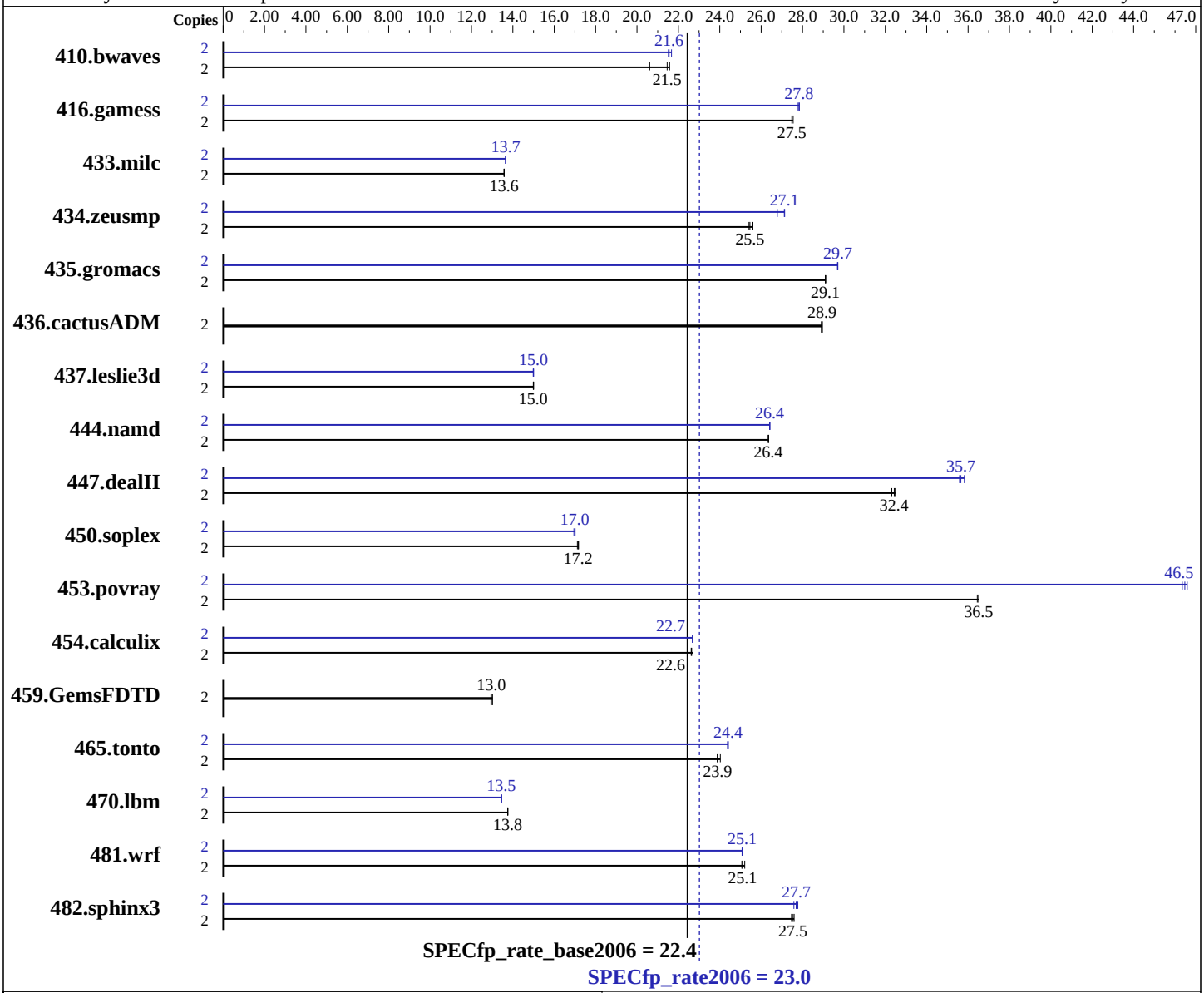
Asus G2S (Intel Core 2 Duo X7800)

SPECfp®_rate2006 = 23.0

SPECfp_rate_base2006 = 22.4

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

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: May-2007



Hardware

CPU Name:	Intel Core 2 Duo X7800
CPU Characteristics:	2.60 GHz, 4MB L2, 800 MHz bus
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

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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

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Hynix DDR2-667 CL5)
Disk Subsystem: 160GB Hitachi SATA, 5400RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
SmartHeap Library Version 8.0 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	1319	20.6	1260	21.6	**1267**	**21.5**	2	**1261**	**21.6**	1254	21.7	1263	21.5
416.gamess	2	**1425**	**27.5**	1425	27.5	1422	27.5	2	1409	27.8	1406	27.8	**1407**	**27.8**
433.milc	2	1352	13.6	**1352**	**13.6**	1352	13.6	2	1346	13.6	**1345**	**13.7**	1344	13.7
434.zeusmp	2	711	25.6	**715**	**25.5**	716	25.4	2	**671**	**27.1**	680	26.8	671	27.1
435.gromacs	2	491	29.1	490	29.1	**491**	**29.1**	2	481	29.7	**481**	**29.7**	481	29.7
436.cactusADM	2	**826**	**28.9**	825	29.0	827	28.9	2	**826**	**28.9**	825	29.0	827	28.9
437.leslie3d	2	1254	15.0	**1254**	**15.0**	1253	15.0	2	**1254**	**15.0**	1255	15.0	1253	15.0
444.namd	2	609	26.4	609	26.3	**609**	**26.4**	2	607	26.4	**607**	**26.4**	607	26.4
447.dealII	2	**706**	**32.4**	708	32.3	704	32.5	2	639	35.8	643	35.6	**642**	**35.7**
450.soplex	2	974	17.1	**972**	**17.2**	971	17.2	2	981	17.0	984	16.9	**982**	**17.0**
453.povray	2	291	36.5	292	36.4	**291**	**36.5**	2	228	46.6	230	46.4	**229**	**46.5**
454.calculix	2	**729**	**22.6**	727	22.7	729	22.6	2	**727**	**22.7**	727	22.7	727	22.7
459.GemsFDTD	2	**1636**	**13.0**	1640	12.9	1630	13.0	2	**1636**	**13.0**	1640	12.9	1630	13.0
465.tonto	2	819	24.0	**824**	**23.9**	824	23.9	2	**806**	**24.4**	807	24.4	806	24.4
470.lbm	2	1997	13.8	1998	13.8	**1998**	**13.8**	2	**2043**	**13.5**	2043	13.5	2043	13.4
481.wrf	2	886	25.2	891	25.1	**890**	**25.1**	2	891	25.1	**891**	**25.1**	890	25.1
482.sphinx3	2	1413	27.6	1419	27.5	**1415**	**27.5**	2	1413	27.6	**1408**	**27.7**	1404	27.8

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

General Notes

```
The system bus runs at 667 MHz
System was configured with an nVIDIA 8600M GT graphics card
Binaries were built on Windows XP Professional SP2
The start command with the /affinity switch was used to bind processes to cores
```

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

Benchmarks using both Fortran and C:
-fast /F950000000

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Peak 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`

Peak Optimization Flags

C benchmarks:

433.milc: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Oa /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

470.lbm: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

482.sphinx3: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

C++ benchmarks:

444.namd: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Oa -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

447.dealII: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qprefetch -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

450.soplex: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

453.povray: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qansi-alias -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE`

Fortran benchmarks:

410.bwaves: `-fast /F950000000`

416.gamess: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F950000000`

434.zeusmp: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-QxT -O2 -Qprec_div- -Qunroll0 -Qscalar-rep- /F950000000`

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Peak Optimization Flags (Continued)

437.leslie3d: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast /F950000000`

459.GemsFDTD: `basepeak = yes`

465.tonto: `Same as 437.leslie3d`

Benchmarks using both Fortran and C:

435.gromacs: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Oa /F950000000`

436.cactusADM: `basepeak = yes`

454.calculix: `-fast /F950000000`

481.wrf: `Same as 454.calculix`

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.20090714.18.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.20090714.18.xml`

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

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