# SPEC® CFP2006 Result



## ASUS Computer International

(Test Sponsor: Intel Corporation)

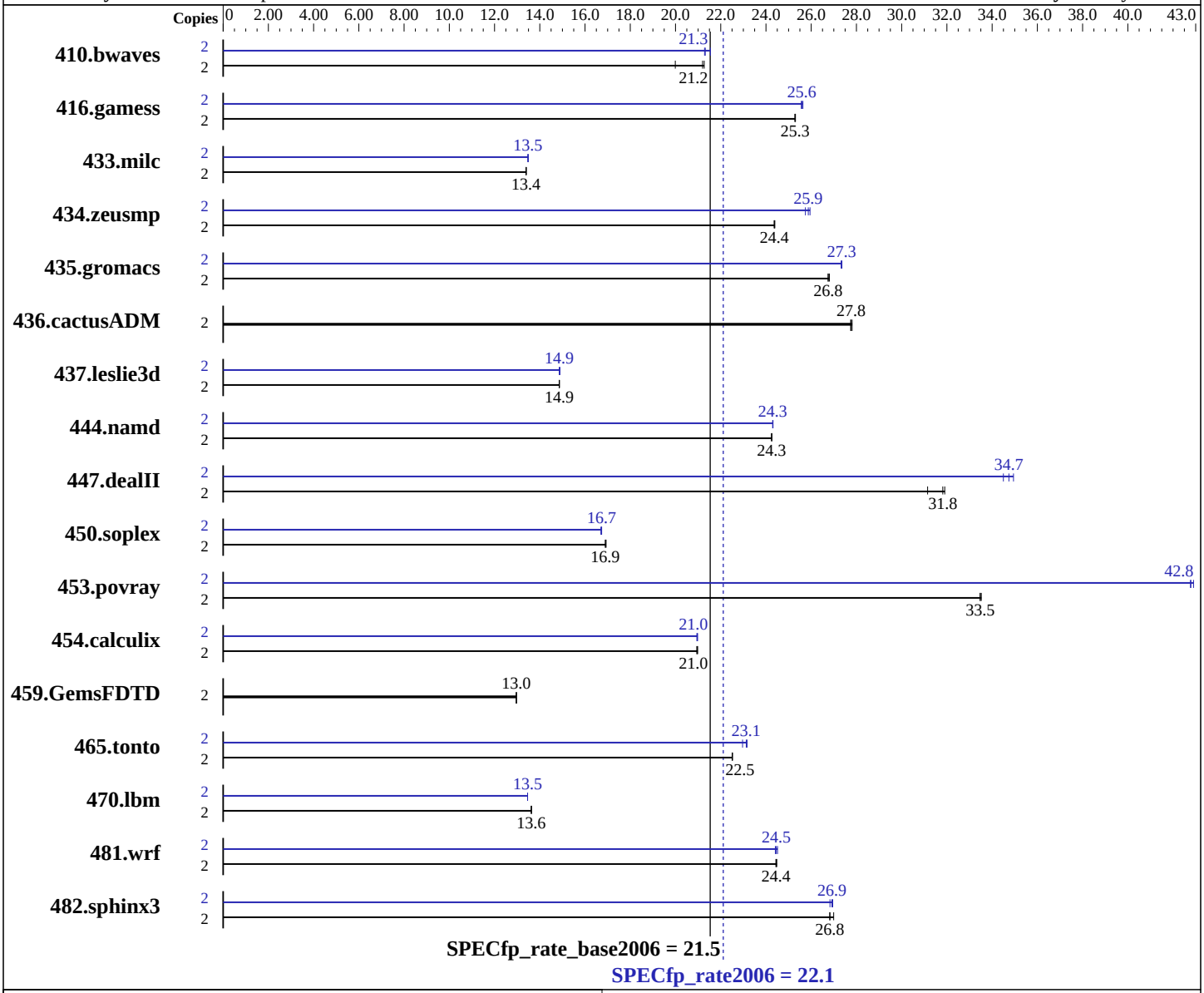
## Asus G2S (Intel Core 2 Duo T7700)

SPECfp®_rate2006 = 22.1

SPECfp_rate_base2006 = 21.5

**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 T7700 |
| CPU Characteristics: | 2.40 GHz, 4MB L2, 800 MHz Bus |
| CPU MHz: | 2400 |
| 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<br>Intel Fortran Compiler for IA32 version 10.0 Build 20070426 Package ID: W_FC_P_10.0.025<br>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 | 1360 | 20.0 | **1282** | **21.2** | 1278 | 21.3 | 2 | **1275** | **21.3** | 1277 | 21.3 | 1261 | 21.5 |
| 416.gamess | 2 | 1549 | 25.3 | **1549** | **25.3** | 1548 | 25.3 | 2 | **1530** | **25.6** | 1532 | 25.6 | 1528 | 25.6 |
| 433.milc | 2 | 1369 | 13.4 | 1372 | 13.4 | **1371** | **13.4** | 2 | **1362** | **13.5** | 1361 | 13.5 | 1363 | 13.5 |
| 434.zeusmp | 2 | **747** | **24.4** | 747 | 24.4 | 746 | 24.4 | 2 | 701 | 25.9 | 707 | 25.7 | **703** | **25.9** |
| 435.gromacs | 2 | 533 | 26.8 | 534 | 26.8 | **534** | **26.8** | 2 | 523 | 27.3 | **522** | **27.3** | 522 | 27.4 |
| 436.cactusADM | 2 | **861** | **27.8** | 861 | 27.7 | 859 | 27.8 | 2 | **861** | **27.8** | 861 | 27.7 | 859 | 27.8 |
| 437.leslie3d | 2 | **1265** | **14.9** | 1264 | 14.9 | 1265 | 14.9 | 2 | 1262 | 14.9 | **1265** | **14.9** | 1265 | 14.9 |
| 444.namd | 2 | 661 | 24.3 | **661** | **24.3** | 661 | 24.2 | 2 | 660 | 24.3 | **660** | **24.3** | 660 | 24.3 |
| 447.dealII | 2 | 735 | 31.1 | **719** | **31.8** | 717 | 31.9 | 2 | 655 | 34.9 | 663 | 34.5 | **659** | **34.7** |
| 450.soplex | 2 | **987** | **16.9** | 987 | 16.9 | 985 | 16.9 | 2 | **997** | **16.7** | 999 | 16.7 | 997 | 16.7 |
| 453.povray | 2 | 318 | 33.5 | 317 | 33.5 | **318** | **33.5** | 2 | **249** | **42.8** | 248 | 42.9 | 249 | 42.8 |
| 454.calculix | 2 | 786 | 21.0 | **788** | **21.0** | 788 | 20.9 | 2 | 788 | 20.9 | 787 | 21.0 | **787** | **21.0** |
| 459.GemsFDTD | 2 | 1636 | 13.0 | **1637** | **13.0** | 1637 | 13.0 | 2 | 1636 | 13.0 | **1637** | **13.0** | 1637 | 13.0 |
| 465.tonto | 2 | **874** | **22.5** | 874 | 22.5 | 874 | 22.5 | 2 | 857 | 23.0 | **851** | **23.1** | 849 | 23.2 |
| 470.lbm | 2 | 2016 | 13.6 | 2017 | 13.6 | **2017** | **13.6** | 2 | 2042 | 13.5 | **2041** | **13.5** | 2041 | 13.5 |
| 481.wrf | 2 | 913 | 24.5 | **914** | **24.4** | 914 | 24.4 | 2 | 915 | 24.4 | 911 | 24.5 | **913** | **24.5** |
| 482.sphinx3 | 2 | 1453 | 26.8 | **1453** | **26.8** | 1444 | 27.0 | 2 | 1446 | 27.0 | 1453 | 26.8 | **1448** | **26.9** |

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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