



# SPEC® CFP2006 Result

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**ASUS Computer International**  
(Test Sponsor: Intel Corporation)

**SPECfp®2006 = 15.2**

**Asus G2S (Intel Core 2 Duo X7800)**

**SPECfp\_base2006 = 14.7**

CPU2006 license: 13

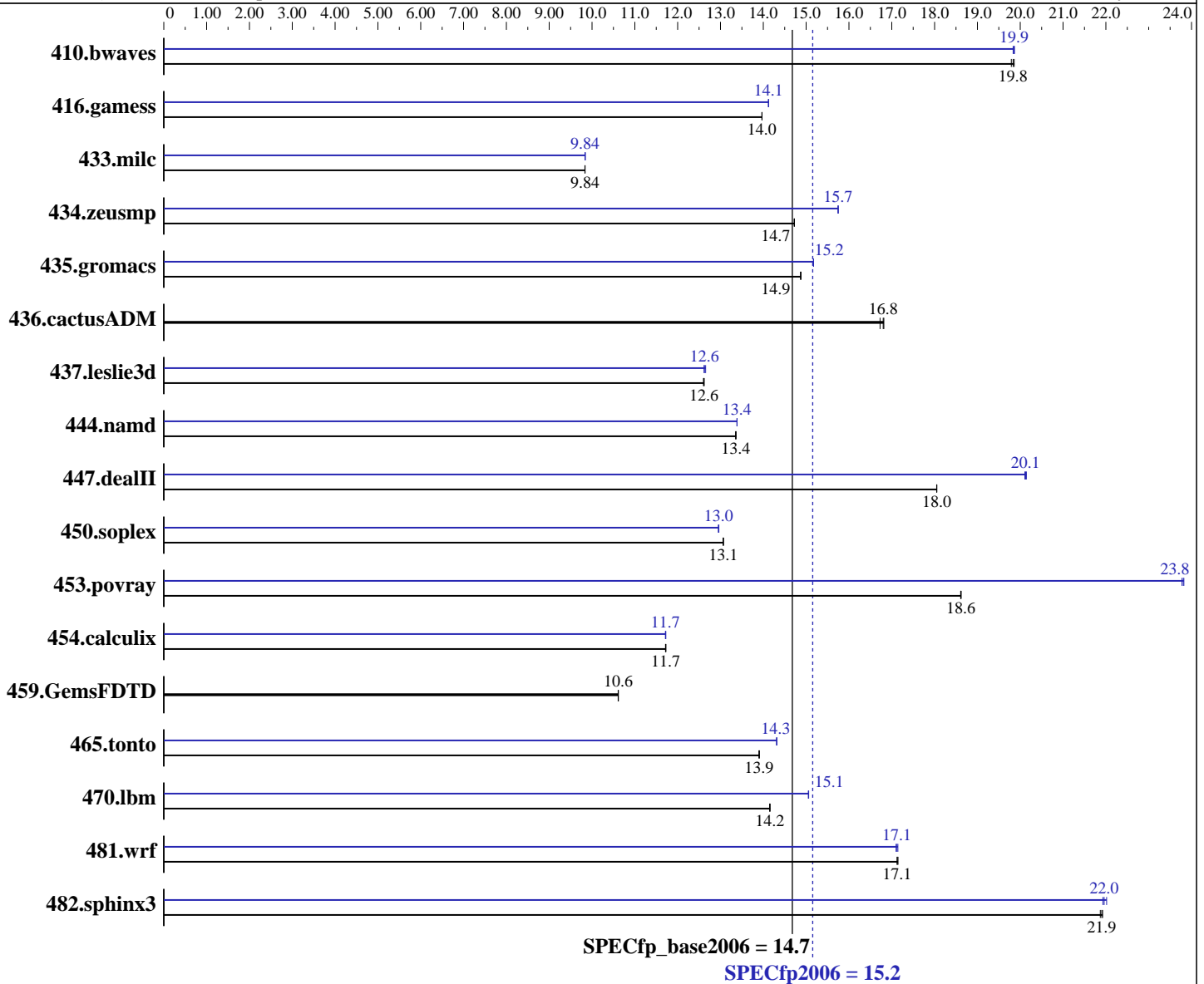
Test sponsor: Intel Corporation

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	687	19.8	684	19.9	<b>685</b>	<b>19.8</b>	684	19.9	685	19.8	<b>684</b>	<b>19.9</b>
416.gamess	1401	14.0	<b>1402</b>	<b>14.0</b>	1402	14.0	1387	14.1	1386	14.1	<b>1387</b>	<b>14.1</b>
433.milc	<b>933</b>	<b>9.84</b>	933	9.84	934	9.83	933	9.84	<b>933</b>	<b>9.84</b>	933	9.84
434.zeusmp	618	14.7	618	14.7	<b>618</b>	<b>14.7</b>	578	15.8	578	15.7	<b>578</b>	<b>15.7</b>
435.gromacs	<b>480</b>	<b>14.9</b>	480	14.9	480	14.9	<b>471</b>	<b>15.2</b>	471	15.2	471	15.2
436.cactusADM	714	16.7	<b>711</b>	<b>16.8</b>	711	16.8	714	16.7	<b>711</b>	<b>16.8</b>	711	16.8
437.leslie3d	<b>745</b>	<b>12.6</b>	746	12.6	745	12.6	745	12.6	743	12.7	<b>744</b>	<b>12.6</b>
444.namd	<b>600</b>	<b>13.4</b>	600	13.4	601	13.4	599	13.4	<b>599</b>	<b>13.4</b>	599	13.4
447.dealII	634	18.1	<b>634</b>	<b>18.0</b>	634	18.0	569	20.1	568	20.1	<b>568</b>	<b>20.1</b>
450.soplex	639	13.1	638	13.1	<b>638</b>	<b>13.1</b>	<b>643</b>	<b>13.0</b>	644	12.9	643	13.0
453.povray	<b>286</b>	<b>18.6</b>	286	18.6	286	18.6	224	23.8	<b>223</b>	<b>23.8</b>	223	23.8
454.calculix	704	11.7	<b>704</b>	<b>11.7</b>	704	11.7	704	11.7	704	11.7	<b>704</b>	<b>11.7</b>
459.GemsFDTD	<b>1000</b>	<b>10.6</b>	1000	10.6	1000	10.6	<b>1000</b>	<b>10.6</b>	1000	10.6	1000	10.6
465.tonto	708	13.9	<b>708</b>	<b>13.9</b>	707	13.9	688	14.3	687	14.3	<b>687</b>	<b>14.3</b>
470.lbm	971	14.1	<b>971</b>	<b>14.2</b>	970	14.2	<b>913</b>	<b>15.1</b>	913	15.1	912	15.1
481.wrf	<b>652</b>	<b>17.1</b>	652	17.1	651	17.1	653	17.1	652	17.1	<b>652</b>	<b>17.1</b>
482.sphinx3	<b>890</b>	<b>21.9</b>	891	21.9	889	21.9	<b>888</b>	<b>22.0</b>	885	22.0	889	21.9

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

## 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



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## 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-  
 -Qunroll10 -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>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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