



# SPEC<sup>®</sup> CFP2006 Result

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## Dell Inc.

Dell Precision M90 (Intel T7600,  
2.33 GHz)

SPECfp<sup>®</sup>\_rate2006 = 19.9

SPECfp\_rate\_base2006 = 19.5

CPU2006 license: 55

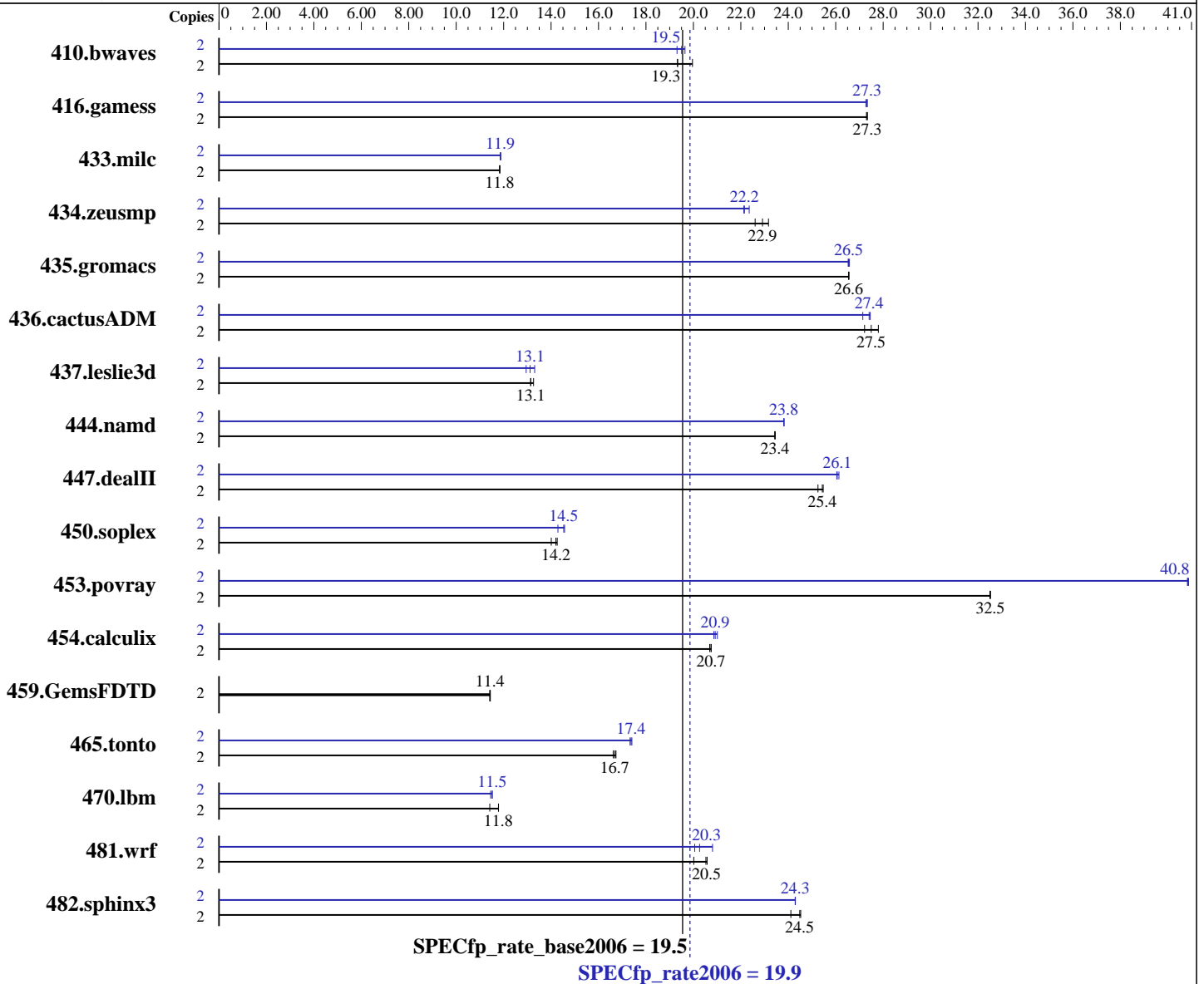
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Dec-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006



### Hardware

CPU Name: Intel Core 2 Duo T7600  
 CPU Characteristics: 667 MHz System Bus  
 CPU MHz: 2333  
 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 XP Professional SP2  
 Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)  
 Intel FORTRAN Compiler 9.1 for IA32 (20061103Z)  
 Microsoft Visual Studio 2005  
 MicroQuill SmartHeap Library 8.0  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit

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L3 Cache: None  
Other Cache: None  
Memory: 2 GB (2x1 GB 667 MHz CL5 DDR2 SDRAM)  
Disk Subsystem: 1 x 80 GB SATA 7200 RPM  
Other Hardware: None

Peak Pointers: 32-bit  
Other Software: None

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1362	20.0	1406	19.3	<b>1406</b>	<b>19.3</b>	2	1384	19.6	1408	19.3	<b>1394</b>	<b>19.5</b>
416.gamess	2	1435	27.3	1433	27.3	<b>1433</b>	<b>27.3</b>	2	<b>1434</b>	<b>27.3</b>	1433	27.3	1436	27.3
433.milc	2	1552	11.8	<b>1551</b>	<b>11.8</b>	1551	11.8	2	1548	11.9	1545	11.9	<b>1548</b>	<b>11.9</b>
434.zeusmp	2	<b>794</b>	<b>22.9</b>	786	23.2	805	22.6	2	814	22.4	823	22.1	<b>822</b>	<b>22.2</b>
435.gromacs	2	538	26.5	<b>538</b>	<b>26.6</b>	538	26.6	2	<b>538</b>	<b>26.5</b>	537	26.6	538	26.5
436.cactusADM	2	<b>869</b>	<b>27.5</b>	878	27.2	860	27.8	2	881	27.1	<b>872</b>	<b>27.4</b>	870	27.5
437.leslie3d	2	<b>1431</b>	<b>13.1</b>	1418	13.3	1431	13.1	2	<b>1433</b>	<b>13.1</b>	1452	12.9	1413	13.3
444.namd	2	685	23.4	<b>684</b>	<b>23.4</b>	684	23.4	2	673	23.8	<b>673</b>	<b>23.8</b>	674	23.8
447.dealII	2	898	25.5	906	25.3	<b>900</b>	<b>25.4</b>	2	878	26.0	875	26.1	<b>878</b>	<b>26.1</b>
450.soplex	2	1170	14.3	<b>1174</b>	<b>14.2</b>	1191	14.0	2	1167	14.3	1145	14.6	<b>1148</b>	<b>14.5</b>
453.povray	2	327	32.5	327	32.5	<b>327</b>	<b>32.5</b>	2	<b>261</b>	<b>40.8</b>	261	40.8	260	40.9
454.calculix	2	<b>796</b>	<b>20.7</b>	798	20.7	795	20.7	2	791	20.9	785	21.0	<b>789</b>	<b>20.9</b>
459.GemsFDTD	2	<b>1856</b>	<b>11.4</b>	1860	11.4	1855	11.4	2	<b>1856</b>	<b>11.4</b>	1860	11.4	1855	11.4
465.tonto	2	<b>1179</b>	<b>16.7</b>	1184	16.6	1176	16.7	2	1136	17.3	<b>1133</b>	<b>17.4</b>	1131	17.4
470.lbm	2	<b>2333</b>	<b>11.8</b>	2407	11.4	2332	11.8	2	2386	11.5	2400	11.4	<b>2386</b>	<b>11.5</b>
481.wrf	2	<b>1088</b>	<b>20.5</b>	1116	20.0	1086	20.6	2	1074	20.8	<b>1103</b>	<b>20.3</b>	1114	20.1
482.sphinx3	2	1617	24.1	1589	24.5	<b>1592</b>	<b>24.5</b>	2	1604	24.3	1605	24.3	<b>1604</b>	<b>24.3</b>

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

## General Notes

32-bit binaries were built on Windows XP Professional x64 Edition

## Base Compiler Invocation

C benchmarks:  
icl -Qc99

C++ benchmarks:  
icl

Fortran benchmarks:  
ifort

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## Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

icl -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 /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

C++ benchmarks:  
-fast -Qcxx\_features /F512000000 shlW32M.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:  
-fast /F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:  
-fast /F1000000000 -link /FORCE:MULTIPLE

## Peak Compiler Invocation

C benchmarks:  
icl -Qc99

C++ benchmarks:  
icl

Fortran benchmarks:  
ifort

Benchmarks using both Fortran and C:  
icl -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:

```

ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE

```

C++ benchmarks:

```

ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlW32M.lib -link /FORCE:MULTIPLE

```

Fortran benchmarks:

```

410.bwaves: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
           /F1000000000 -link /FORCE:MULTIPLE

```

```

416.gamess: ONESTEP -fast /F1000000000 -link /FORCE:MULTIPLE

```

434.zeusmp: Same as 410.bwaves

437.leslie3d: Same as 410.bwaves

459.GemsFDTD: basepeak = yes

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

```

435.gromacs: -fast /F1000000000 -link /FORCE:MULTIPLE

```

```

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F1000000000
           -link /FORCE:MULTIPLE

```

454.calculix: Same as 436.cactusADM

481.wrf: Same as 435.gromacs

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.html>



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You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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