SPEC® CFP2006 Result

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Dell Inc.

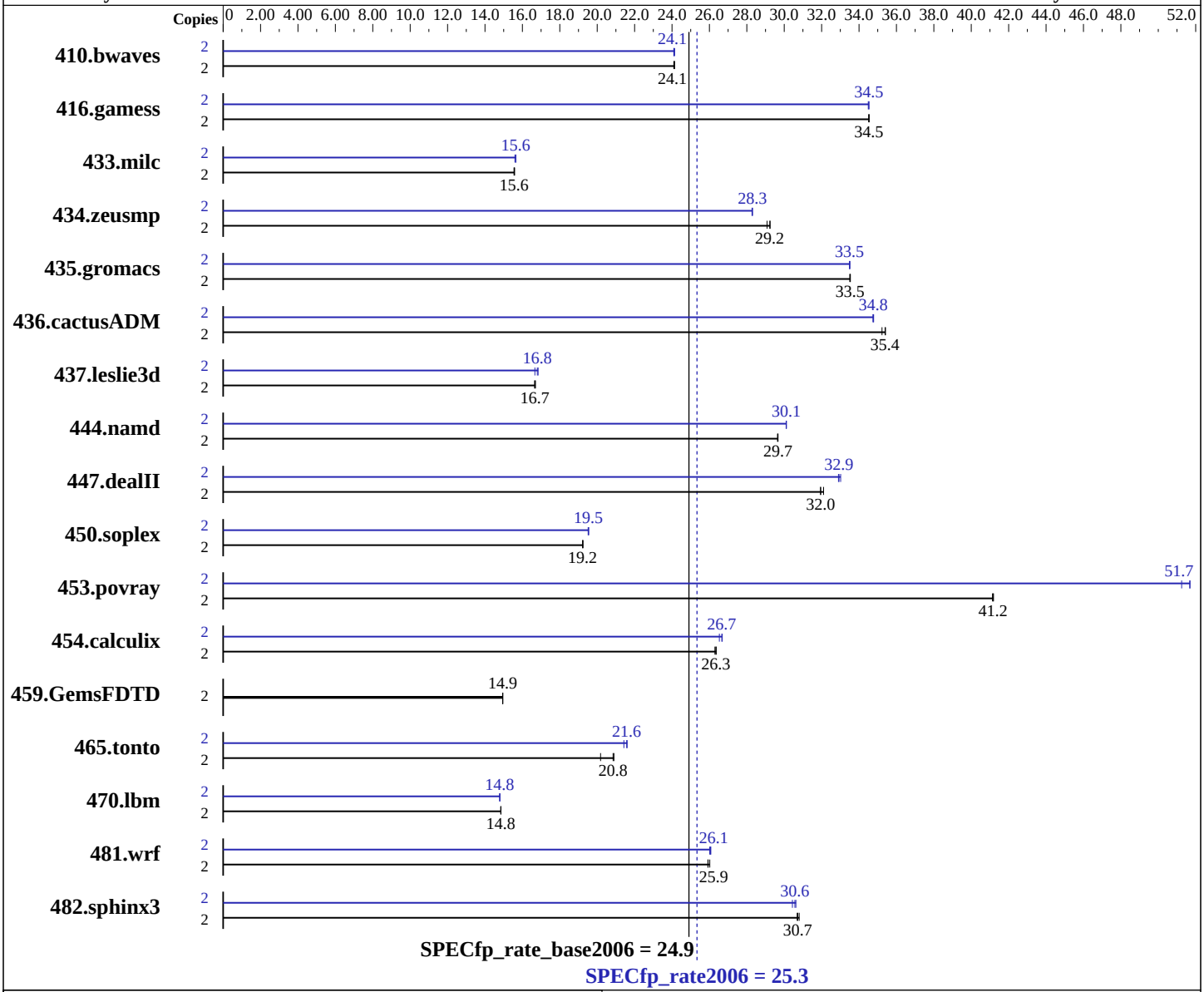
Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECfp®_rate2006 = 25.3

SPECfp_rate_base2006 = 24.9

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Dec-2006
Hardware Availability: Jul-2006
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Core 2 Extreme X6800
CPU Characteristics:	1066 MHz System Bus
CPU MHz:	2933
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: 4 GB (4x1GB 667 MHz ECC 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	1128	24.1	1126	24.1	**1127**	**24.1**	2	1126	24.1	1128	24.1	**1128**	**24.1**
416.gamess	2	1135	34.5	**1134**	**34.5**	1134	34.5	2	**1134**	**34.5**	1135	34.5	1134	34.5
433.milc	2	1178	15.6	**1180**	**15.6**	1180	15.6	2	**1173**	**15.6**	1173	15.6	1177	15.6
434.zeusmp	2	626	29.1	**623**	**29.2**	622	29.2	2	643	28.3	644	28.3	**643**	**28.3**
435.gromacs	2	426	33.5	426	33.5	**426**	**33.5**	2	426	33.5	426	33.5	**426**	**33.5**
436.cactusADM	2	675	35.4	**675**	**35.4**	678	35.2	2	687	34.8	688	34.7	**688**	**34.8**
437.leslie3d	2	1129	16.7	1126	16.7	**1128**	**16.7**	2	**1119**	**16.8**	1116	16.8	1128	16.7
444.namd	2	**541**	**29.7**	541	29.6	541	29.7	2	533	30.1	533	30.1	**533**	**30.1**
447.dealII	2	716	31.9	**716**	**32.0**	713	32.1	2	**695**	**32.9**	695	32.9	693	33.0
450.soplex	2	867	19.2	**868**	**19.2**	868	19.2	2	**854**	**19.5**	853	19.5	855	19.5
453.povray	2	259	41.1	**258**	**41.2**	258	41.2	2	208	51.3	**206**	**51.7**	206	51.7
454.calculix	2	626	26.4	**626**	**26.3**	628	26.3	2	622	26.5	618	26.7	**619**	**26.7**
459.GemsFDTD	2	1420	14.9	1419	15.0	**1420**	**14.9**	2	1420	14.9	1419	15.0	**1420**	**14.9**
465.tonto	2	942	20.9	975	20.2	**944**	**20.8**	2	918	21.4	**912**	**21.6**	911	21.6
470.lbm	2	1850	14.9	1851	14.8	**1851**	**14.8**	2	1858	14.8	**1858**	**14.8**	1858	14.8
481.wrf	2	859	26.0	**861**	**25.9**	862	25.9	2	857	26.1	859	26.0	**857**	**26.1**
482.sphinx3	2	1270	30.7	**1269**	**30.7**	1266	30.8	2	1281	30.4	1273	30.6	**1275**	**30.6**

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
```

Continued on next page

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

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

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.

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