SPEC® CFP2006 Result

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Dell Inc.

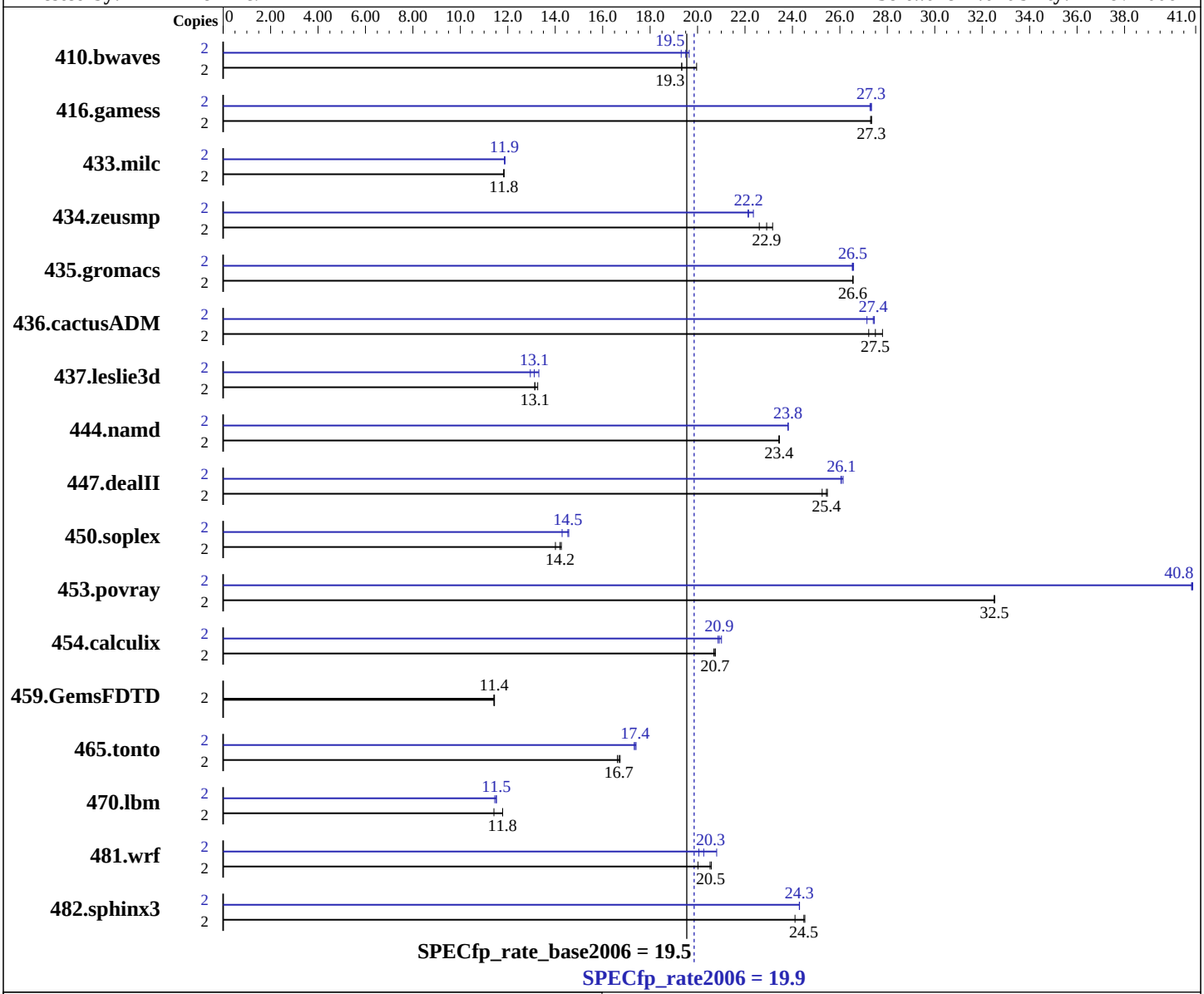
Dell Precision M90 (Intel T7600, 2.33 GHz)

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

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 other inquiries, please contact webmaster@spec.org.

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