SPEC® CFP2006 Result

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Dell Inc.

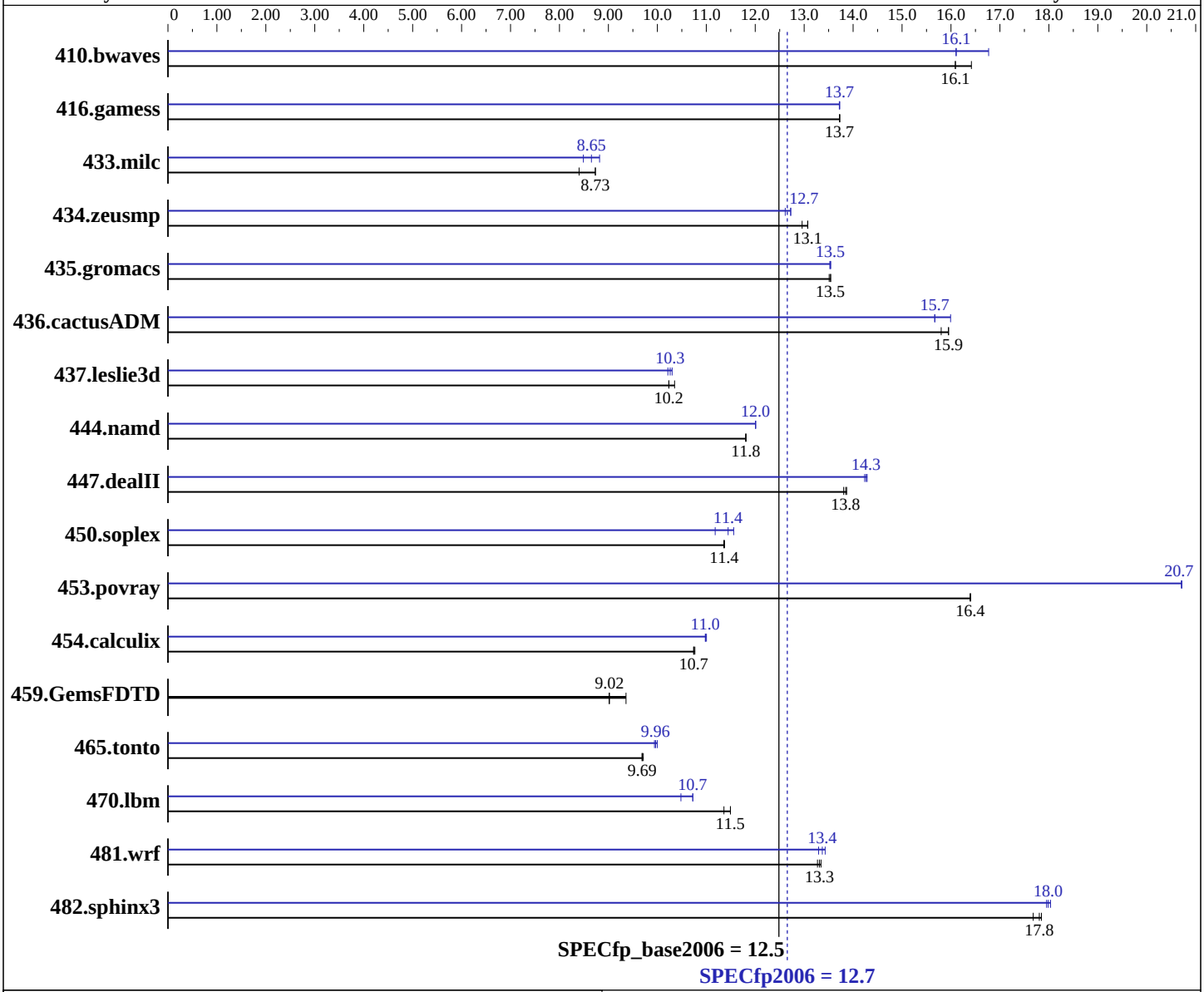
Dell Precision M90 (Intel T7600, 2.33 GHz)

SPECfp®2006 = 12.7

SPECfp_base2006 = 12.5

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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	845	16.1	**845**	**16.1**	828	16.4	810	16.8	844	16.1	**844**	**16.1**
416.gamess	1427	13.7	**1427**	**13.7**	1427	13.7	**1427**	**13.7**	1427	13.7	1427	13.7
433.milc	**1051**	**8.73**	1093	8.40	1051	8.73	1041	8.82	**1061**	**8.65**	1082	8.49
434.zeusmp	702	13.0	**696**	**13.1**	696	13.1	**715**	**12.7**	721	12.6	715	12.7
435.gromacs	528	13.5	**527**	**13.5**	527	13.5	**528**	**13.5**	528	13.5	527	13.5
436.cactusADM	749	16.0	**749**	**15.9**	756	15.8	747	16.0	**763**	**15.7**	763	15.7
437.leslie3d	908	10.4	919	10.2	**918**	**10.2**	912	10.3	**916**	**10.3**	920	10.2
444.namd	679	11.8	**679**	**11.8**	679	11.8	668	12.0	668	12.0	**668**	**12.0**
447.dealII	829	13.8	**826**	**13.8**	825	13.9	804	14.2	801	14.3	**802**	**14.3**
450.soplex	**734**	**11.4**	734	11.4	733	11.4	746	11.2	721	11.6	**729**	**11.4**
453.povray	325	16.4	324	16.4	**324**	**16.4**	257	20.7	**257**	**20.7**	257	20.7
454.calculix	**768**	**10.7**	768	10.7	766	10.8	750	11.0	751	11.0	**751**	**11.0**
459.GemsFDTD	1177	9.02	1134	9.36	**1176**	**9.02**	1177	9.02	1134	9.36	**1176**	**9.02**
465.tonto	1013	9.71	**1016**	**9.69**	1016	9.69	990	9.94	984	10.0	**987**	**9.96**
470.lbm	**1196**	**11.5**	1209	11.4	1195	11.5	1281	10.7	**1281**	**10.7**	1311	10.5
481.wrf	842	13.3	**839**	**13.3**	837	13.3	840	13.3	**835**	**13.4**	832	13.4
482.sphinx3	1102	17.7	1092	17.8	**1095**	**17.8**	1081	18.0	**1084**	**18.0**	1086	18.0

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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