



SPEC® CFP2006 Result

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Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp®2006 = 15.6

SPECfp_base2006 = 15.3

CPU2006 license: 55

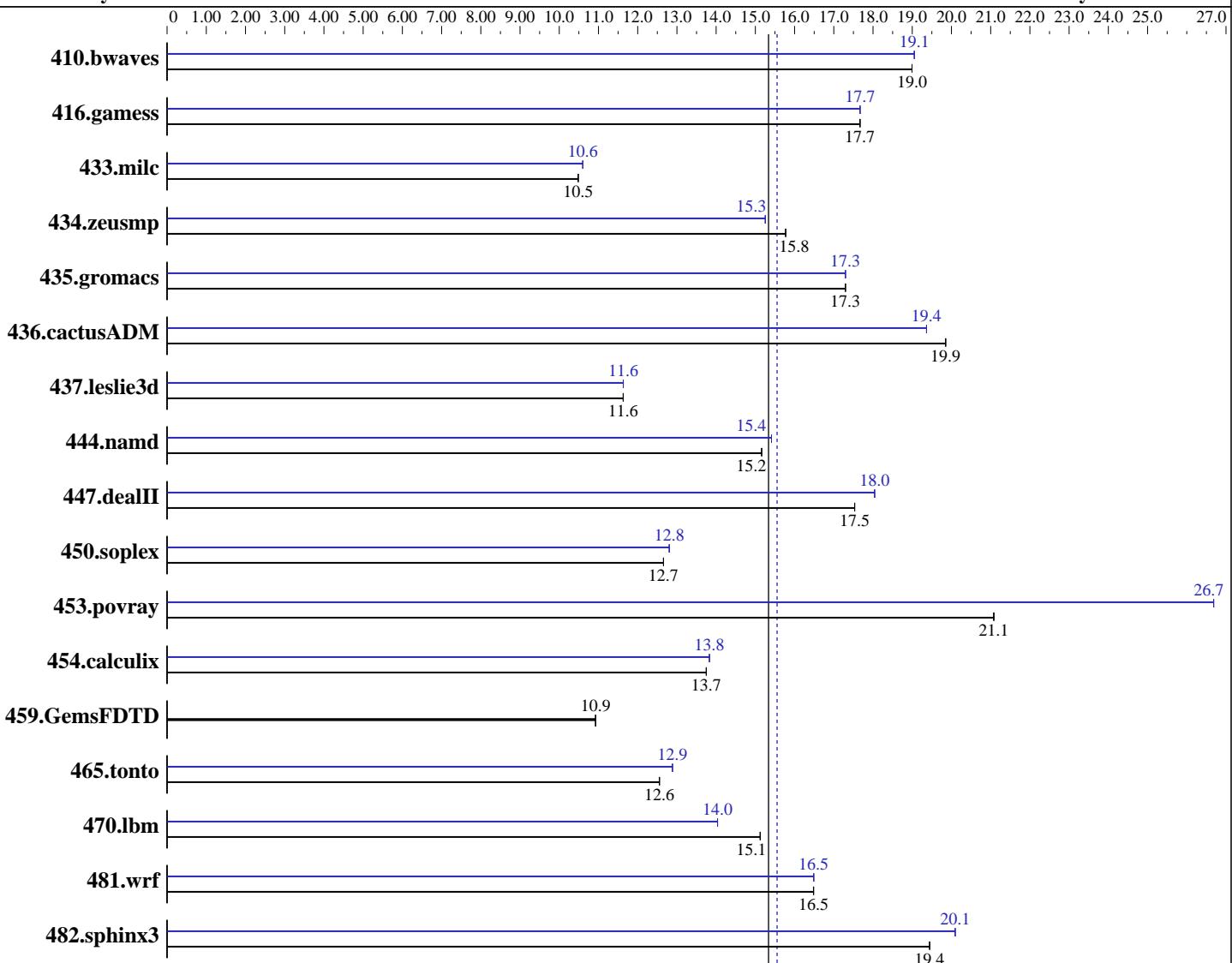
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007



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Hardware

CPU Name: Intel Xeon 5160
CPU Characteristics: 1333 MHz Bus Speed
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip

Software

Operating System: Windows XP Professional x64 Edition
Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
Intel FORTRAN Compiler 9.1 for IA32 (20061103Z)
Microsoft Visual Studio 2005
Auto Parallel: No
File System: NTFS
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit

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L3 Cache:	None
Other Cache:	None
Memory:	8 GB (8x1 GB 667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem:	1 x 72 GB SAS 10K RPM
Other Hardware:	None

Other Software: MicroQuill SmartHeap Library 8.0

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	715	19.0	715	19.0	716	19.0	713	19.1	713	19.1	713	19.1
416.gamess	1108	17.7	1108	17.7	1108	17.7	1108	17.7	1108	17.7	1108	17.7
433.milc	876	10.5	876	10.5	876	10.5	866	10.6	866	10.6	866	10.6
434.zeusmp	577	15.8	577	15.8	577	15.8	597	15.3	597	15.3	597	15.3
435.gromacs	413	17.3	413	17.3	413	17.3	413	17.3	413	17.3	413	17.3
436.cactusADM	602	19.9	602	19.9	602	19.9	617	19.4	617	19.4	617	19.4
437.leslie3d	808	11.6	808	11.6	808	11.6	808	11.6	808	11.6	808	11.6
444.namd	529	15.2	529	15.2	529	15.2	520	15.4	520	15.4	520	15.4
447.dealII	653	17.5	653	17.5	652	17.5	634	18.0	634	18.0	634	18.0
450.soplex	659	12.7	659	12.7	659	12.7	651	12.8	651	12.8	651	12.8
453.povray	252	21.1	252	21.1	252	21.1	199	26.7	199	26.7	199	26.7
454.calculix	600	13.7	600	13.7	600	13.7	597	13.8	597	13.8	597	13.8
459.GemsFDTD	971	10.9	971	10.9	971	10.9	971	10.9	971	10.9	971	10.9
465.tonto	784	12.6	784	12.6	784	12.6	764	12.9	764	12.9	764	12.9
470.lbm	909	15.1	909	15.1	909	15.1	979	14.0	979	14.0	979	14.0
481.wrf	678	16.5	678	16.5	677	16.5	677	16.5	677	16.5	677	16.5
482.sphinx3	1002	19.4	1002	19.4	1002	19.4	970	20.1	970	20.1	970	20.1

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

General Notes

BIOS Settings

Adjacent Cache Line Prefetch set to ON:
Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

Snoop Filter set to OFF
Snoop Filter preserves cache coherency while minimizing snoops to remote nodes.

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



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Base Compiler Invocation

C benchmarks:
 `icl -Qc99`

C++ benchmarks:
 `icl`

Fortran benchmarks:
 `ifort`

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`

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Peak Compiler Invocation (Continued)

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
```

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Peak Optimization Flags (Continued)

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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