



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp®_rate2006 = 43.0

SPECfp_rate_base2006 = 42.3

CPU2006 license: 55

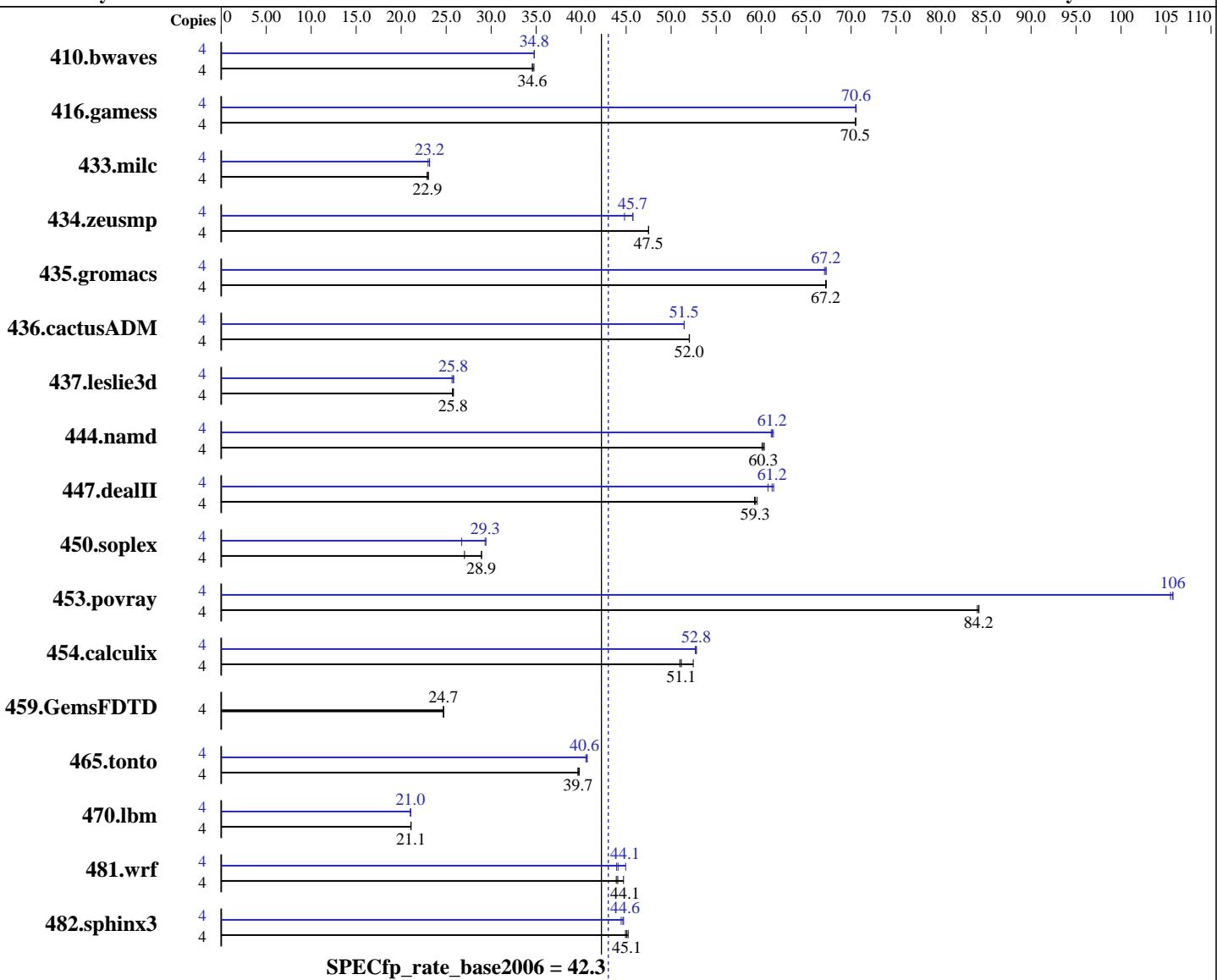
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007



Hardware

CPU Name: Intel Xeon 5160
CPU Characteristics: 1333 MHz Bus Speed
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 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

Continued on next page

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp_rate2006 = 43.0

SPECfp_rate_base2006 = 42.3

CPU2006 license: 55

Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: May-2006

Tested by: Dell Inc.

Software Availability: Jan-2007

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1572	34.6	1564	34.8	1572	34.6	4	1562	34.8	1563	34.8	1562	34.8
416.gamess	4	1111	70.5	1111	70.5	1110	70.5	4	1111	70.5	1110	70.6	1110	70.6
433.milc	4	1594	23.0	1604	22.9	1602	22.9	4	1586	23.2	1586	23.2	1597	23.0
434.zeusmp	4	767	47.5	766	47.5	766	47.5	4	812	44.8	796	45.7	796	45.7
435.gromacs	4	425	67.2	425	67.2	425	67.2	4	426	67.0	425	67.2	425	67.2
436.cactusADM	4	919	52.0	919	52.0	919	52.0	4	929	51.5	929	51.5	929	51.4
437.leslie3d	4	1459	25.8	1463	25.7	1457	25.8	4	1457	25.8	1456	25.8	1466	25.6
444.namd	4	534	60.1	532	60.3	532	60.3	4	525	61.1	524	61.2	523	61.4
447.dealII	4	772	59.3	769	59.5	771	59.3	4	748	61.2	753	60.8	745	61.4
450.soplex	4	1234	27.0	1153	28.9	1154	28.9	4	1248	26.7	1138	29.3	1134	29.4
453.povray	4	253	84.0	253	84.2	253	84.2	4	202	105	201	106	201	106
454.calculix	4	629	52.5	645	51.1	647	51.0	4	626	52.7	625	52.8	625	52.8
459.GemsFDTD	4	1717	24.7	1719	24.7	1719	24.7	4	1717	24.7	1719	24.7	1719	24.7
465.tonto	4	992	39.7	993	39.6	989	39.8	4	968	40.7	968	40.6	971	40.5
470.lbm	4	2607	21.1	2606	21.1	2606	21.1	4	2611	21.0	2613	21.0	2612	21.0
481.wrf	4	999	44.7	1014	44.1	1018	43.9	4	994	44.9	1017	43.9	1013	44.1
482.sphinx3	4	1735	44.9	1724	45.2	1730	45.1	4	1754	44.4	1746	44.6	1743	44.7

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.

Optimization for high-frequency FSB applicatons set to ON

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



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp_rate2006 = 43.0

SPECfp_rate_base2006 = 42.3

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007

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`

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp_rate2006 = 43.0

SPECfp_rate_base2006 = 42.3

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision 690 (Intel Xeon 5160, 3.00 GHz)

SPECfp_rate2006 = 43.0

SPECfp_rate_base2006 = 42.3

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jan-2007

Hardware Availability: May-2006

Software Availability: Jan-2007

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>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.

Report generated on Tue Jul 22 10:20:46 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 20 February 2007.