



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 32.9

PowerEdge 840 (Intel Xeon X3220, 2.40 GHz)

SPECfp_rate_base2006 = 32.4

CPU2006 license: 55

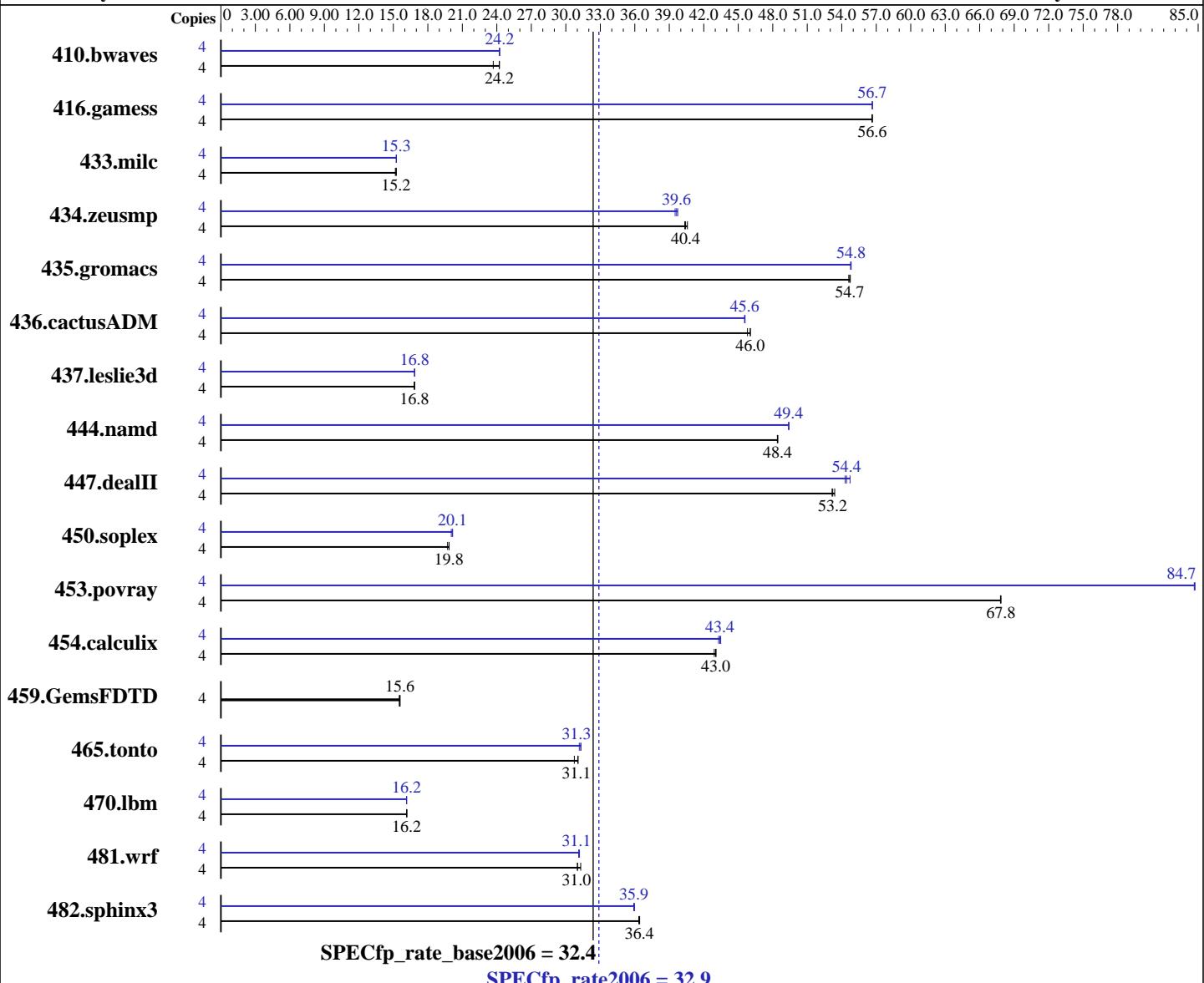
Test date: Jan-2007

Test sponsor: Dell Inc.

Hardware Availability: Jan-2007

Tested by: Dell Inc.

Software Availability: Oct-2006



Hardware

CPU Name: Intel Xeon X3220
CPU Characteristics: 1066MHz system bus
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Software

Operating System: Windows Server 2003 Standard Edition
Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
Auto Parallel: No
File System: Intel FORTRAN Compiler 9.1 for IA32 (20061103Z)
System State: Microsoft Visual Studio 2005 (8.0.50727.42)
Base Pointers: NTFS
Peak Pointers: Default
32-bit
32-bit

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L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1 GB 667MHz ECC DDR2 SDRAM)
 Disk Subsystem: 1 x 73GB SAS 10000 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	2295	23.7	2244	24.2	2244	24.2	4	2243	24.2	2243	24.2	2243	24.2
416.gamess	4	1383	56.6	1382	56.7	1383	56.6	4	1382	56.7	1382	56.7	1382	56.7
433.milc	4	2420	15.2	2407	15.3	2409	15.2	4	2408	15.3	2407	15.3	2405	15.3
434.zeusmp	4	902	40.3	901	40.4	897	40.6	4	916	39.7	918	39.6	921	39.5
435.gromacs	4	522	54.7	522	54.7	523	54.6	4	521	54.8	521	54.8	521	54.8
436.cactusADM	4	1044	45.8	1038	46.0	1038	46.0	4	1049	45.6	1049	45.6	1048	45.6
437.leslie3d	4	2235	16.8	2232	16.8	2232	16.8	4	2231	16.9	2232	16.8	2232	16.8
444.namd	4	662	48.4	662	48.4	663	48.4	4	650	49.4	649	49.4	649	49.4
447.dealII	4	857	53.4	860	53.2	861	53.2	4	841	54.4	836	54.7	843	54.3
450.soplex	4	1681	19.9	1681	19.8	1692	19.7	4	1656	20.1	1665	20.0	1655	20.2
453.povray	4	314	67.8	314	67.8	314	67.8	4	251	84.7	251	84.7	251	84.7
454.calculix	4	767	43.0	766	43.1	769	42.9	4	759	43.5	762	43.3	760	43.4
459.GemsFDTD	4	2726	15.6	2723	15.6	2736	15.5	4	2726	15.6	2723	15.6	2736	15.5
465.tonto	4	1267	31.1	1280	30.7	1267	31.1	4	1257	31.3	1258	31.3	1263	31.2
470.lbm	4	3400	16.2	3401	16.2	3400	16.2	4	3402	16.2	3403	16.2	3403	16.2
481.wrf	4	1441	31.0	1440	31.0	1428	31.3	4	1435	31.1	1432	31.2	1435	31.1
482.sphinx3	4	2140	36.4	2141	36.4	2145	36.3	4	2171	35.9	2171	35.9	2166	36.0

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

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

marks using both Fortran

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:

ic1

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qc99 ifort



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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>



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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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