



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 27.9

PowerEdge R200 (Intel Xeon 3065, 2.33 GHz)

SPECfp_rate_base2006 = 26.4

CPU2006 license: 55

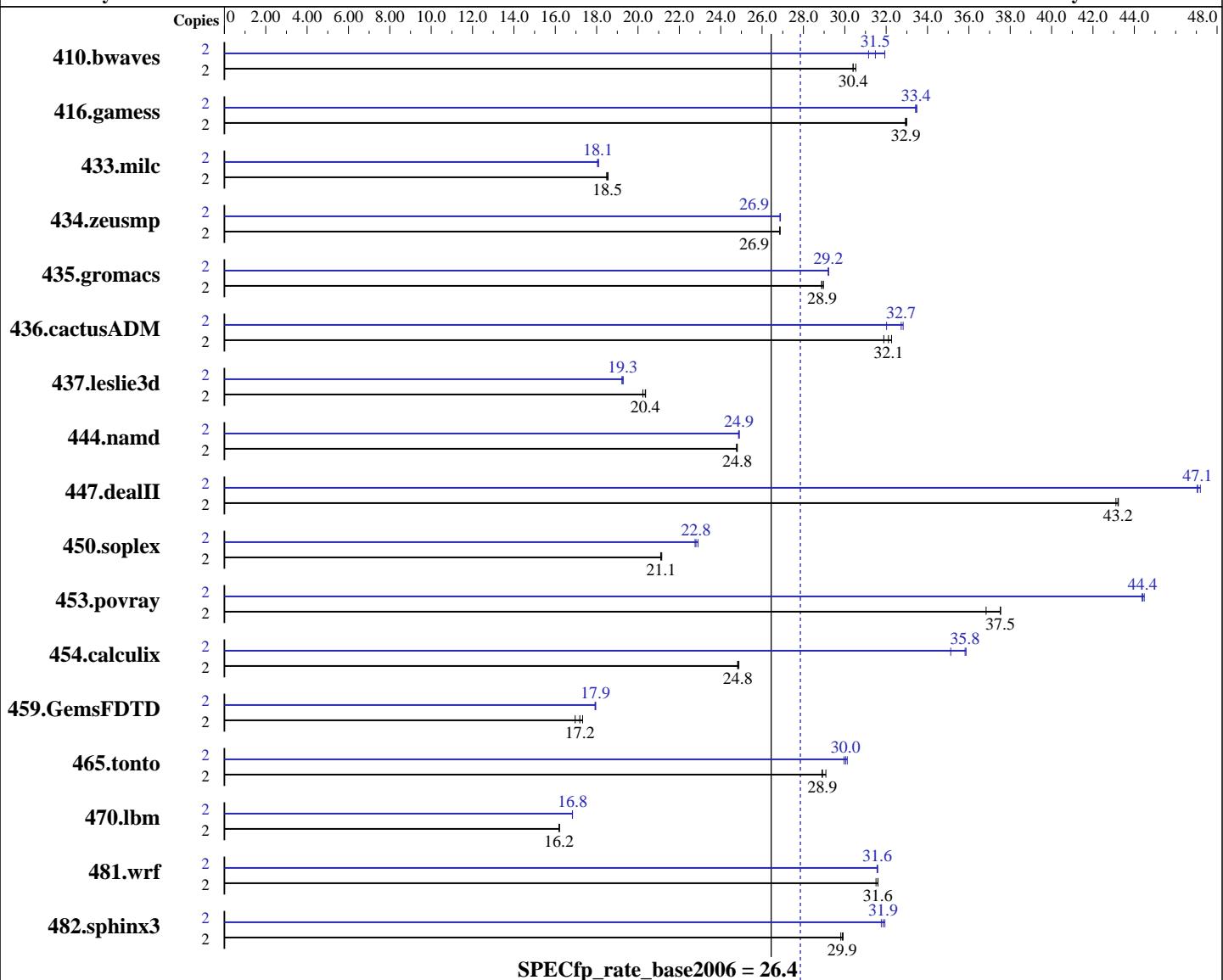
Test date: Nov-2007

Test sponsor: Dell Inc.

Hardware Availability: Nov-2007

Tested by: Dell Inc.

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon 3065
CPU Characteristics: 1333 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

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070725
Auto Parallel: No
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit

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L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4 x 2GB 800MHz DDR2)
 Disk Subsystem: 73GB SAS, 10K RPM
 Other Hardware: None

Peak Pointers: 32/64-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	894	30.4	894	30.4	890	30.5	2	851	31.9	863	31.5	873	31.1
416.gamess	2	1189	32.9	1187	33.0	1189	32.9	2	1172	33.4	1170	33.5	1171	33.4
433.milc	2	989	18.6	993	18.5	991	18.5	2	1015	18.1	1016	18.1	1018	18.0
434.zeusmp	2	678	26.9	677	26.9	678	26.9	2	677	26.9	677	26.9	677	26.9
435.gromacs	2	493	29.0	494	28.9	494	28.9	2	489	29.2	489	29.2	489	29.2
436.cactusADM	2	750	31.9	744	32.1	741	32.3	2	728	32.8	746	32.0	730	32.7
437.leslie3d	2	929	20.2	923	20.4	924	20.4	2	975	19.3	978	19.2	976	19.3
444.namd	2	648	24.8	647	24.8	647	24.8	2	644	24.9	645	24.9	645	24.9
447.dealII	2	530	43.2	531	43.1	529	43.2	2	485	47.2	486	47.0	486	47.1
450.soplex	2	789	21.1	790	21.1	791	21.1	2	733	22.8	731	22.8	728	22.9
453.povray	2	284	37.5	289	36.8	283	37.5	2	240	44.4	240	44.4	239	44.5
454.calculix	2	665	24.8	663	24.9	665	24.8	2	470	35.1	460	35.9	461	35.8
459.GemsFDTD	2	1225	17.3	1251	17.0	1235	17.2	2	1182	18.0	1182	17.9	1184	17.9
465.tonto	2	680	28.9	677	29.1	681	28.9	2	655	30.0	657	30.0	653	30.1
470.lbm	2	1696	16.2	1698	16.2	1698	16.2	2	1633	16.8	1632	16.8	1633	16.8
481.wrf	2	707	31.6	707	31.6	709	31.5	2	708	31.6	707	31.6	708	31.6
482.sphinx3	2	1305	29.9	1303	29.9	1308	29.8	2	1227	31.8	1220	31.9	1224	31.9

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

General Notes

taskset used to bind processes to cores

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
  433.milc: -DSPEC_CPU_LP64
  434.zeusmp: -DSPEC_CPU_LP64
  435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
  437.leslie3d: -DSPEC_CPU_LP64
    444.namd: -DSPEC_CPU_LP64
    447.dealII: -DSPEC_CPU_LP64
    450.soplex: -DSPEC_CPU_LP64
    453.povray: -DSPEC_CPU_LP64
  454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
  465.tonto: -DSPEC_CPU_LP64
    470.lbm: -DSPEC_CPU_LP64
      481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
  482.sphinx3: -DSPEC_CPU_LP64
```

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks (except as noted below):

```
/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include
```

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Peak Compiler Invocation (Continued)

433.milc: `icc`

C++ benchmarks (except as noted below):

`icpc`

450.soplex: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/icpc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Fortran benchmarks (except as noted below):

`ifort`

437.leslie3d: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/bin/ifort
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux32/include

Benchmarks using both Fortran and C:

`icc ifort`

Peak Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-scalar-rep -prefetch -opt-malloc-options=3

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Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-prefetch -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.22.html>



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You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.22.xml>

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