



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®2006 = Not Run

PowerEdge R410 (Intel Xeon E5502, 1.86 GHz)

SPECfp_base2006 = 18.2

CPU2006 license: 55

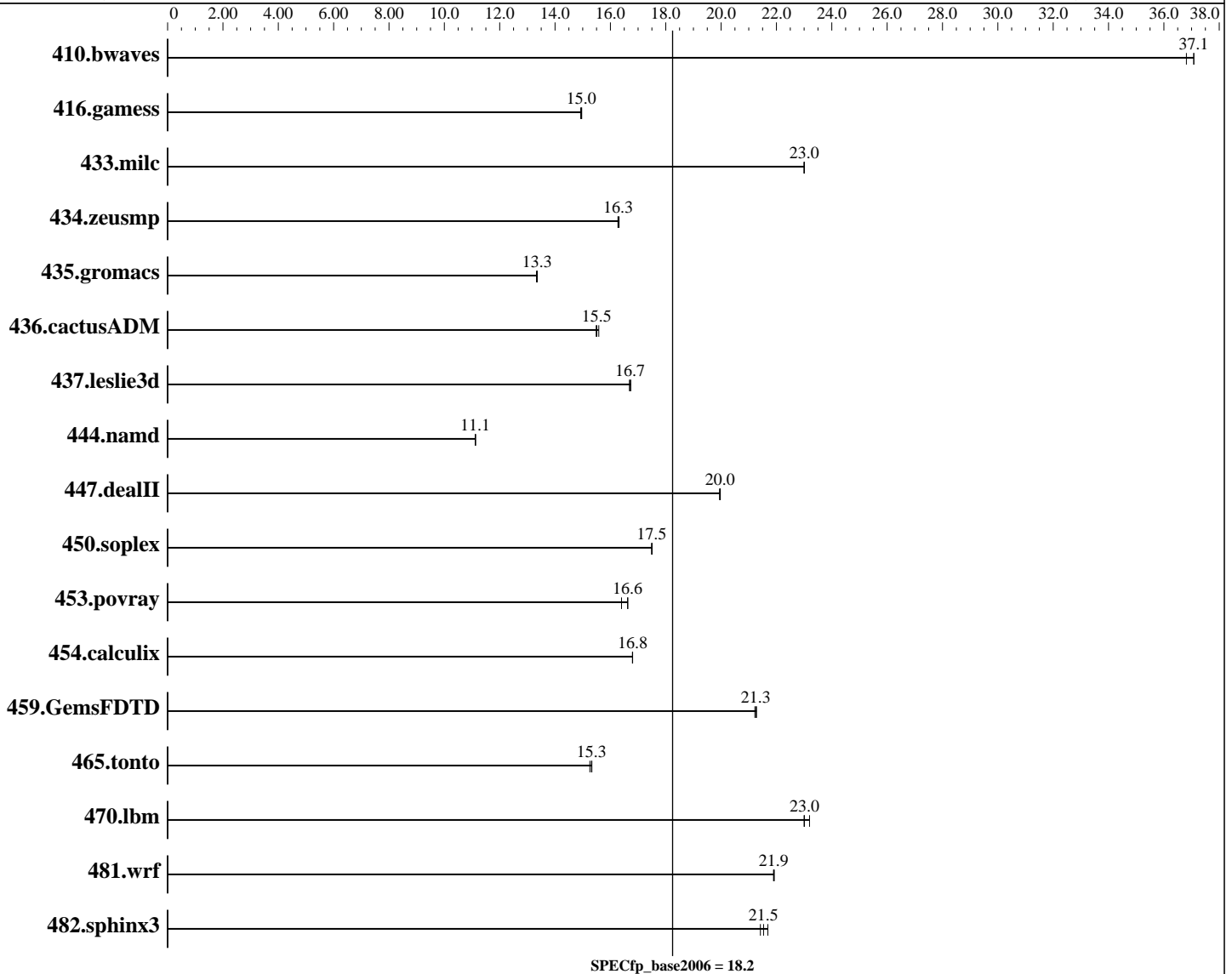
Test date: Sep-2009

Test sponsor: Dell Inc.

Hardware Availability: Jun-2009

Tested by: Dell Inc.

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon E5502
 CPU Characteristics:
 CPU MHz: 1867
 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: 256 KB I+D on chip per core

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Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ and Fortran Compiler Professional 11.0 for Linux
 Build 20090131 Package ID: l_cproc_p_11.0.080, l_cprof_p_11.0.080
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run level 3 (multi-user)

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L3 Cache: 4 MB I+D on chip per chip
Other Cache: None
Memory: 2 GB (2 x 1 GB DDR3-1066 DR RDIMM downclocked to 800 MHz)
Disk Subsystem: 1 x 73 GB 15000 RPM SAS
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: Binutils 2.18.50.0.7.20080502

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	369	36.8	367	37.1	<u>367</u>	<u>37.1</u>						
416.gamess	1308	15.0	<u>1310</u>	<u>15.0</u>	1312	14.9						
433.milc	399	23.0	399	23.0	<u>399</u>	<u>23.0</u>						
434.zeusmp	558	16.3	<u>559</u>	<u>16.3</u>	559	16.3						
435.gromacs	<u>535</u>	<u>13.3</u>	534	13.4	536	13.3						
436.cactusADM	772	15.5	<u>770</u>	<u>15.5</u>	767	15.6						
437.leslie3d	563	16.7	562	16.7	<u>562</u>	<u>16.7</u>						
444.namd	721	11.1	<u>721</u>	<u>11.1</u>	721	11.1						
447.dealII	<u>573</u>	<u>20.0</u>	574	19.9	573	20.0						
450.soplex	<u>477</u>	<u>17.5</u>	477	17.5	476	17.5						
453.povray	320	16.6	324	16.4	<u>320</u>	<u>16.6</u>						
454.calculix	491	16.8	491	16.8	<u>491</u>	<u>16.8</u>						
459.GemsFDTD	500	21.2	<u>499</u>	<u>21.3</u>	499	21.3						
465.tonto	642	15.3	<u>642</u>	<u>15.3</u>	645	15.3						
470.lbm	<u>597</u>	<u>23.0</u>	597	23.0	592	23.2						
481.wrf	510	21.9	510	21.9	<u>510</u>	<u>21.9</u>						
482.sphinx3	899	21.7	<u>905</u>	<u>21.5</u>	910	21.4						

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

General Notes

OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter
KMP_STACKSIZE set to 200M



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Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

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:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch



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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090805.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090805.01.xml>

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

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