



SPEC® CFP2006 Result

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Dell Inc.

PowerEdge 1950 (Intel Xeon processor 5110, 1.60GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 30.5

CPU2006 license: 55

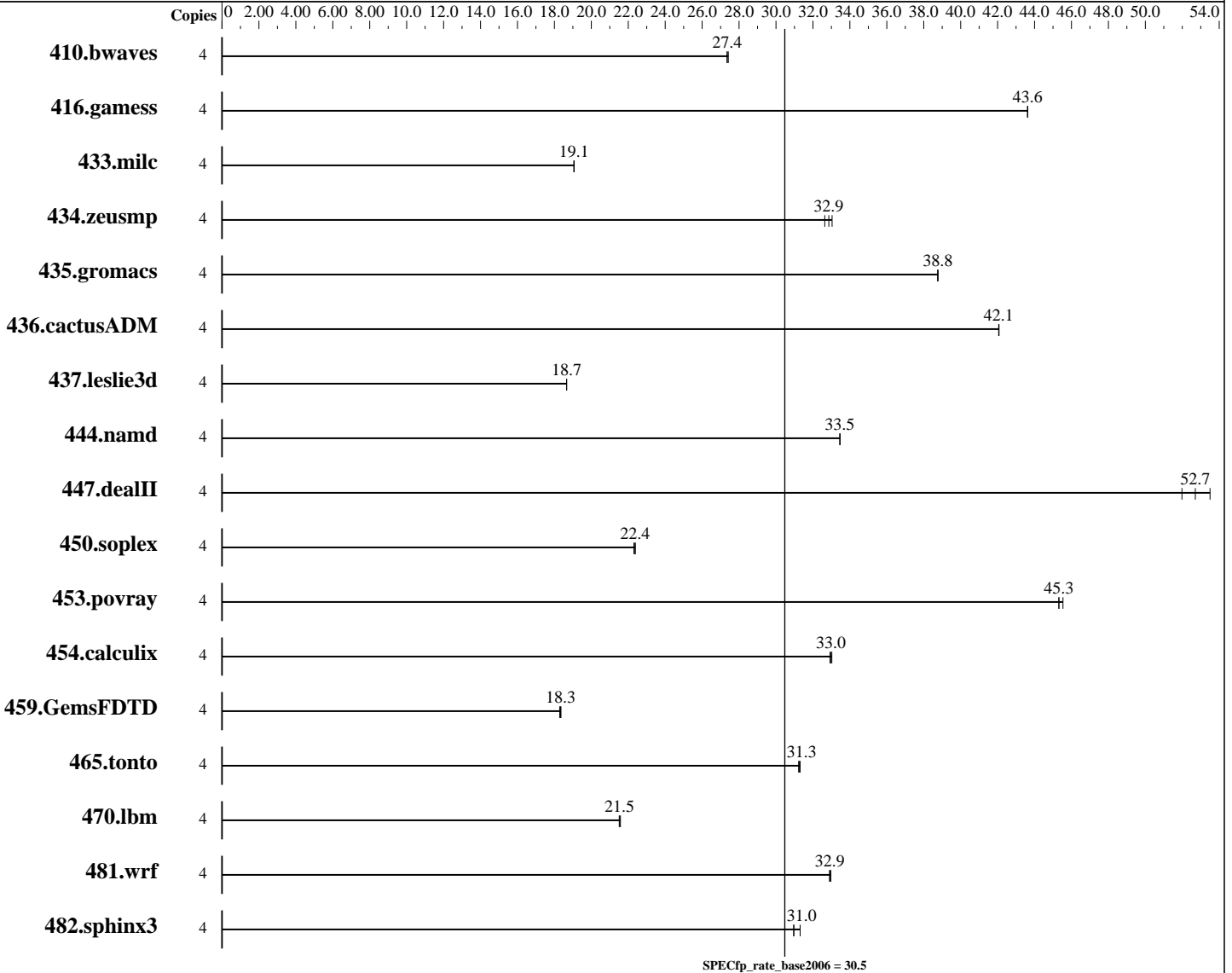
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1066 MHz Bus Speed
 CPU MHz: 1600
 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

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Software

Operating System: Red Hat Enterprise Linux 4 Advanced Server Update 3 EM64T kernel 2.6.9-34-smp
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_cc_c_9.1.045 Build no 20061101
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_fc_c_9.1.040 Build no 20061101
 Auto Parallel: No

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem: 1 x 73 GB SAS 15k RPM
Other Hardware: None

File System: ext3
System State: Run level 3
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1983	27.4	1988	27.3	<u>1987</u>	<u>27.4</u>							
416.gamess	4	1795	43.6	1796	43.6	<u>1795</u>	<u>43.6</u>							
433.milc	4	1926	19.1	<u>1926</u>	<u>19.1</u>	1927	19.1							
434.zeusmp	4	1115	32.6	1102	33.0	<u>1108</u>	<u>32.9</u>							
435.gromacs	4	<u>737</u>	<u>38.8</u>	737	38.8	737	38.8							
436.cactusADM	4	1136	42.1	<u>1136</u>	<u>42.1</u>	1136	42.1							
437.leslie3d	4	2015	18.7	2015	18.7	<u>2015</u>	<u>18.7</u>							
444.namd	4	959	33.5	<u>959</u>	<u>33.5</u>	959	33.5							
447.dealII	4	880	52.0	855	53.5	<u>868</u>	<u>52.7</u>							
450.soplex	4	1491	22.4	<u>1491</u>	<u>22.4</u>	1496	22.3							
453.povray	4	467	45.5	<u>470</u>	<u>45.3</u>	470	45.3							
454.calculix	4	999	33.0	<u>1001</u>	<u>33.0</u>	1002	32.9							
459.GemsFDTD	4	2321	18.3	<u>2314</u>	<u>18.3</u>	2312	18.4							
465.tonto	4	1261	31.2	<u>1259</u>	<u>31.3</u>	1257	31.3							
470.lbm	4	2547	21.6	<u>2552</u>	<u>21.5</u>	2555	21.5							
481.wrf	4	1355	33.0	1358	32.9	<u>1357</u>	<u>32.9</u>							
482.sphinx3	4	2490	31.3	2519	31.0	<u>2517</u>	<u>31.0</u>							

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

Platform Notes

Snoop Filter enabled in BIOS
"ulimit -s unlimited" set

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Base Compiler Invocation (Continued)

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:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

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

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.html>

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

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.xml>



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For other inquiries, please contact webmaster@spec.org.

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