



SPEC® CFP2006 Result

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Dell Inc.

PowerEdge 1950 (Intel Xeon processor 5140, 2.33GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 38.3

CPU2006 license: 55

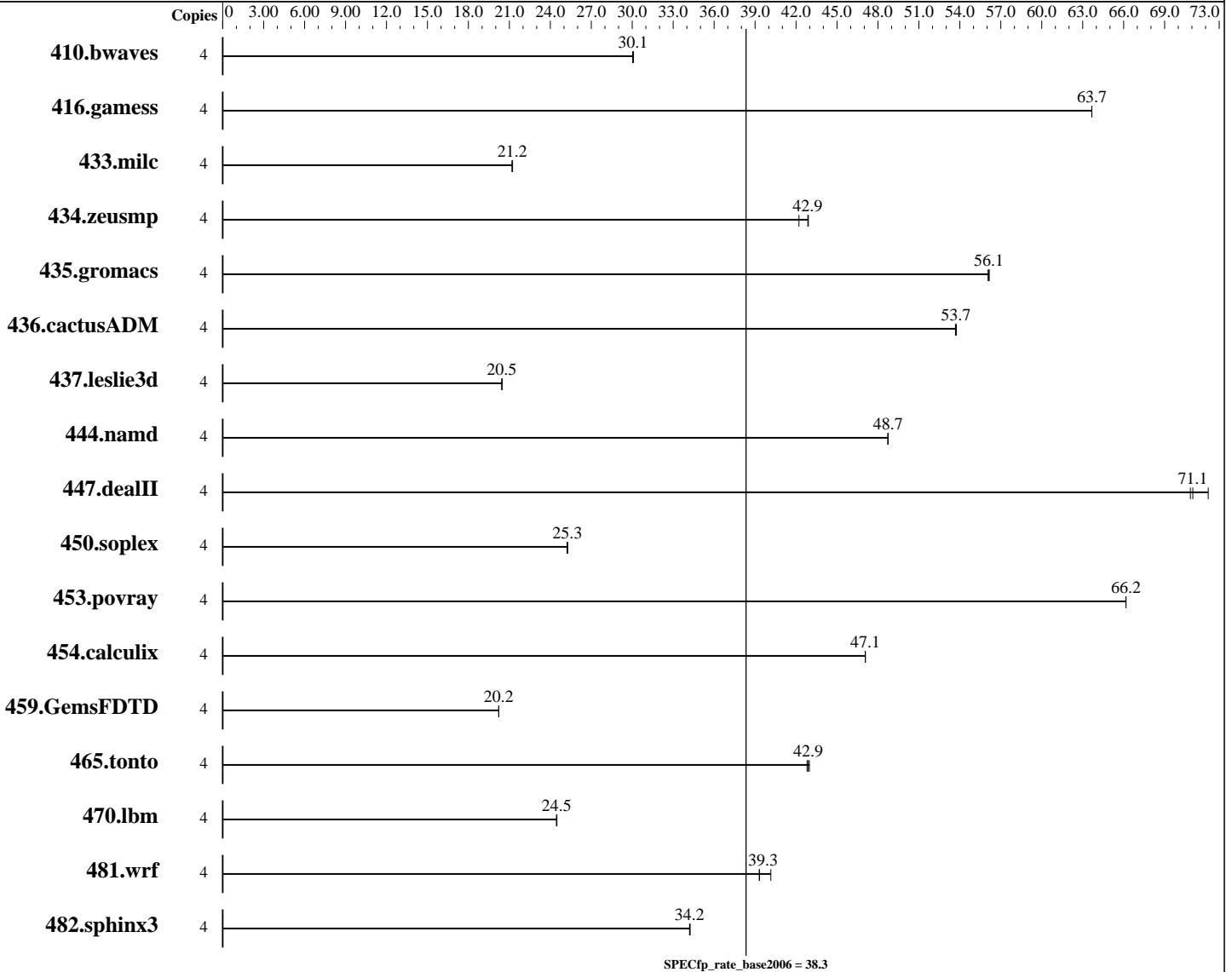
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Jul-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 5140
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 2333
 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	1810	30.0	<u>1809</u>	<u>30.1</u>	1806	30.1							
416.gamess	4	<u>1230</u>	<u>63.7</u>	1230	63.7	1230	63.7							
433.milc	4	<u>1731</u>	<u>21.2</u>	1729	21.2	1733	21.2							
434.zeusmp	4	848	42.9	862	42.2	<u>849</u>	<u>42.9</u>							
435.gromacs	4	509	56.1	509	56.1	<u>509</u>	<u>56.1</u>							
436.cactusADM	4	889	53.7	890	53.7	<u>890</u>	<u>53.7</u>							
437.leslie3d	4	1839	20.4	<u>1838</u>	<u>20.5</u>	1838	20.5							
444.namd	4	658	48.7	658	48.7	<u>658</u>	<u>48.7</u>							
447.dealII	4	646	70.9	634	72.2	<u>644</u>	<u>71.1</u>							
450.soplex	4	<u>1321</u>	<u>25.3</u>	1320	25.3	1322	25.2							
453.povray	4	322	66.2	<u>322</u>	<u>66.2</u>	322	66.2							
454.calculix	4	701	47.1	<u>701</u>	<u>47.1</u>	701	47.1							
459.GemsFDTD	4	<u>2098</u>	<u>20.2</u>	2099	20.2	2098	20.2							
465.tonto	4	916	43.0	919	42.8	<u>918</u>	<u>42.9</u>							
470.lbm	4	2247	24.5	2245	24.5	<u>2247</u>	<u>24.5</u>							
481.wrf	4	1113	40.2	1137	39.3	<u>1136</u>	<u>39.3</u>							
482.sphinx3	4	2277	34.2	2280	34.2	<u>2279</u>	<u>34.2</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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