SPEC® CFP2006 Result

Dell Inc.

PowerEdge 2900 (Intel Xeon processor E5335, 2.00 GHz)

$SPECfp^{®}\_rate2006 =$ Not Run

$SPECfp\_rate\_base2006 =$ 52.0

CPU2006 license: 55
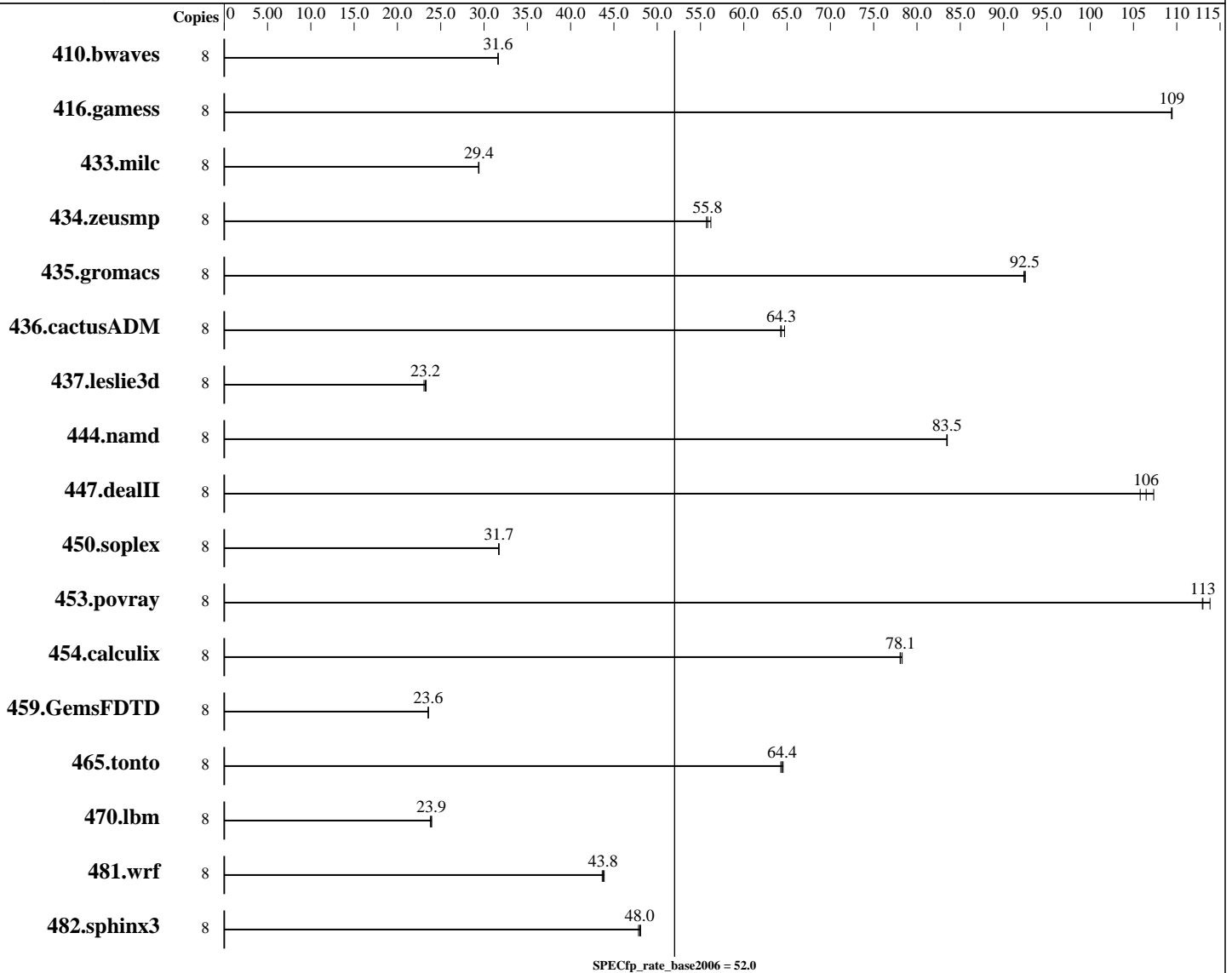
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2007

Hardware Availability: Dec-2006

Software Availability: Nov-2006

Benchmark	Copies	Result
410.bwaves	8	31.6
416.gamess	8	109
433.milc	8	29.4
434.zeusmp	8	55.8
435.gromacs	8	92.5
436.cactusADM	8	64.3
437.leslie3d	8	23.2
444.namd	8	83.5
447.dealII	8	106
450.soplex	8	31.7
453.povray	8	113
454.calculix	8	78.1
459.GemsFDTD	8	23.6
465.tonto	8	64.4
470.lbm	8	23.9
481.wrf	8	43.8
482.sphinx3	8	48.0

SPECfp_rate_base2006 = 52.0

Hardware

CPU Name: Intel Xeon E5335

CPU Characteristics: 1333 MHz Bus Speed

CPU MHz: 2000

FPU: Integrated

CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip

CPU(s) orderable: 1,2 chips

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

Continued on next page

Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-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:	ext2
System State:	Multi-user run level 3
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other Software:	None

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3437	31.6	**3437**	**31.6**	3438	31.6							
416.gamess	8	1432	109	**1431**	**109**	1431	109							
433.milc	8	**2497**	**29.4**	2502	29.4	2496	29.4							
434.zeusmp	8	1307	55.7	1295	56.2	**1304**	**55.8**							
435.gromacs	8	617	92.5	619	92.3	**618**	**92.5**							
436.cactusADM	8	1488	64.3	1478	64.7	**1486**	**64.3**							
437.leslie3d	8	**3238**	**23.2**	3260	23.1	3225	23.3							
444.namd	8	769	83.4	**769**	**83.5**	768	83.5							
447.dealII	8	**860**	**106**	853	107	865	106							
450.soplex	8	2105	31.7	**2104**	**31.7**	2103	31.7							
453.povray	8	**377**	**113**	377	113	374	114							
454.calculix	8	**845**	**78.1**	846	78.1	843	78.3							
459.GemsFDTD	8	3605	23.5	3601	23.6	**3602**	**23.6**							
465.tonto	8	1220	64.5	1225	64.3	**1222**	**64.4**							
470.lbm	8	**4593**	**23.9**	4619	23.8	4591	23.9							
481.wrf	8	**2042**	**43.8**	2047	43.6	2036	43.9							
482.sphinx3	8	3259	47.8	3243	48.1	**3249**	**48.0**							

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

Platform Notes

```
Hardware Prefetcher disabled in BIOS
Adjacent Cache Line Prefetch disabled 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/dell-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/dell-ic91-flags.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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