SPEC® CFP2006 Result
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Dell Inc.

PowerEdge 1950 (Intel Xeon processor 5130, 2.00GHz)

$SPECfp^{®}\_rate2006 =$ Not Run
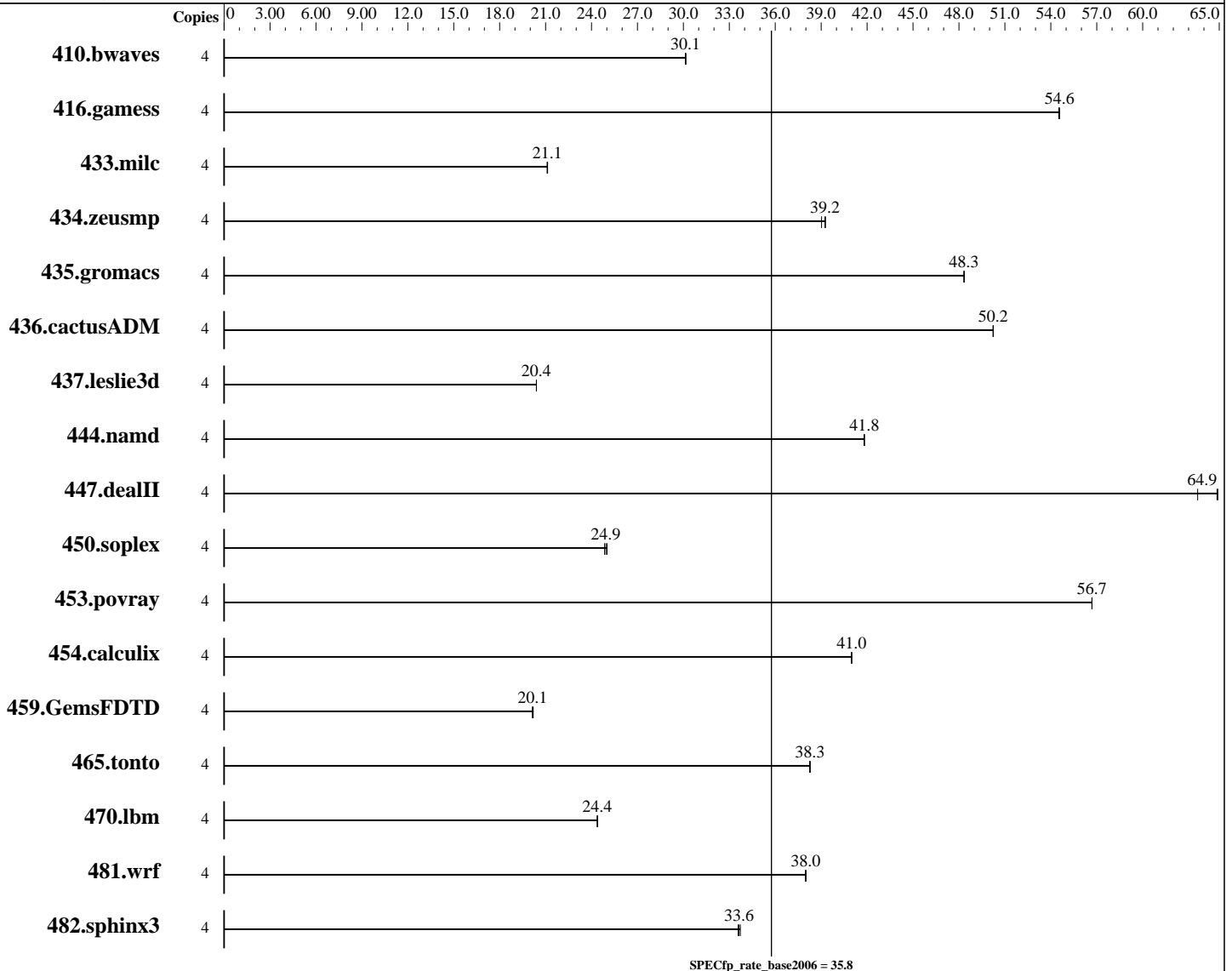
$SPECfp\_rate\_base2006 =$ 35.8

CPU2006 license: 55
Test sponsor: Dell Inc.
Tested by: Dell Inc.

Test date: Mar-2007
Hardware Availability: Jul-2006
Software Availability: Nov-2006

Benchmark	Copies	Result
410.bwaves	4	30.1
416.gamess	4	54.6
433.milc	4	21.1
434.zeusmp	4	39.2
435.gromacs	4	48.3
436.cactusADM	4	50.2
437.leslie3d	4	20.4
444.namd	4	41.8
447.dealII	4	64.9
450.soplex	4	24.9
453.povray	4	56.7
454.calculix	4	41.0
459.GemsFDTD	4	20.1
465.tonto	4	38.3
470.lbm	4	24.4
481.wrf	4	38.0
482.sphinx3	4	33.6

SPECfp_rate_base2006 = 35.8

Hardware

CPU Name:	Intel Xeon 5130
CPU Characteristics:	1333 MHz Bus Speed
CPU MHz:	2000
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

Continued on next page

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	Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
410.bwaves	4	1804	30.1	1802	30.2	**1804**	**30.1**							
416.gamess	4	1435	54.6	1437	54.5	**1435**	**54.6**							
433.milc	4	**1739**	**21.1**	1740	21.1	1738	21.1							
434.zeusmp	4	**927**	**39.2**	933	39.0	927	39.3							
435.gromacs	4	591	48.3	**591**	**48.3**	591	48.3							
436.cactusADM	4	952	50.2	**952**	**50.2**	951	50.2							
437.leslie3d	4	1843	20.4	1843	20.4	**1843**	**20.4**							
444.namd	4	767	41.8	767	41.8	**767**	**41.8**							
447.dealII	4	**706**	**64.9**	720	63.6	705	64.9							
450.soplex	4	1342	24.9	1334	25.0	**1338**	**24.9**							
453.povray	4	375	56.7	375	56.7	**375**	**56.7**							
454.calculix	4	805	41.0	805	41.0	**805**	**41.0**							
459.GemsFDTD	4	2107	20.1	2102	20.2	**2107**	**20.1**							
465.tonto	4	1028	38.3	**1028**	**38.3**	1029	38.3							
470.lbm	4	**2254**	**24.4**	2254	24.4	2254	24.4							
481.wrf	4	**1176**	**38.0**	1176	38.0	1176	38.0							
482.sphinx3	4	2322	33.6	**2318**	**33.6**	2312	33.7							

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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