SPEC® CFP2006 Result

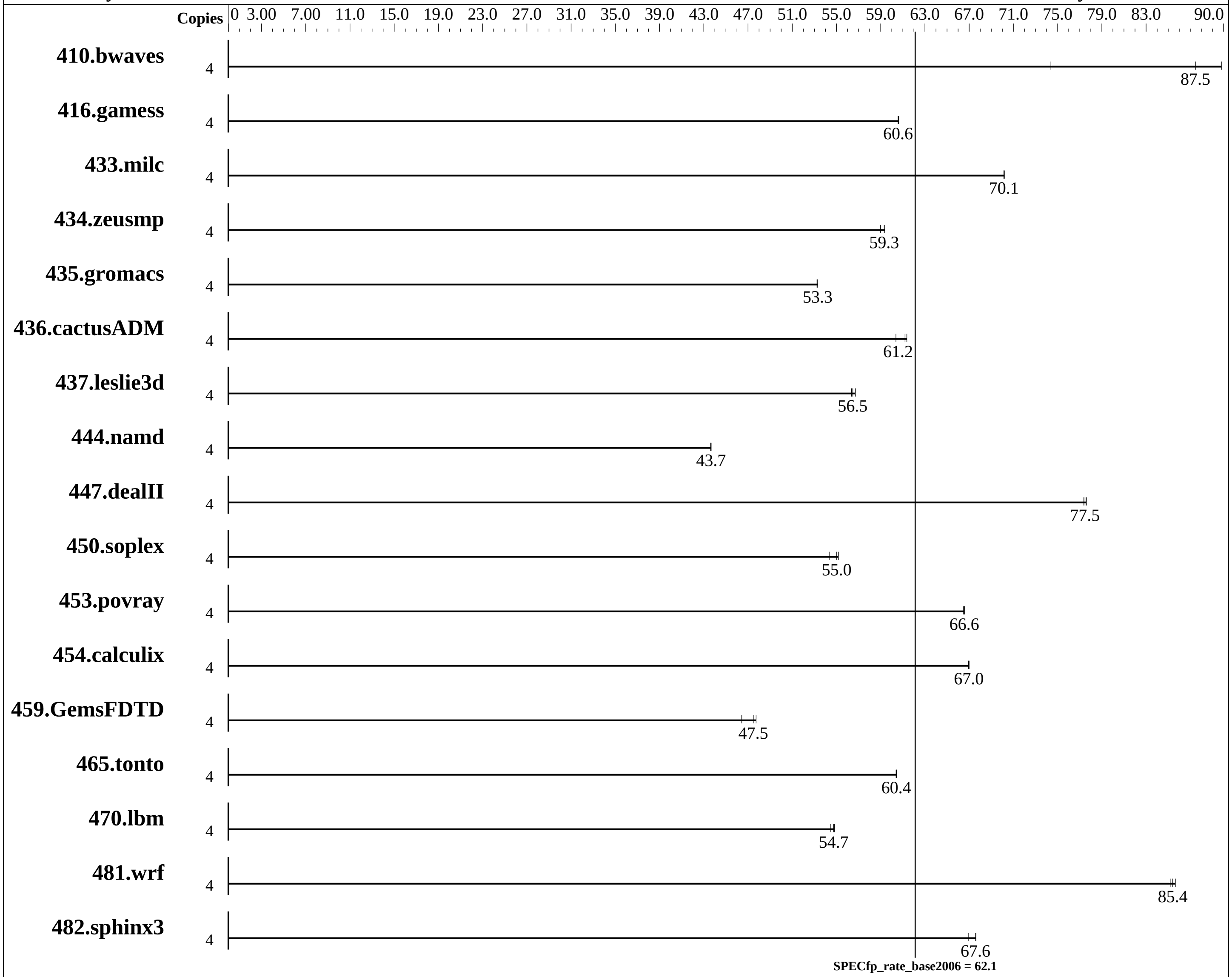
Dell Inc.

PowerEdge T610 (Intel Xeon E5502, 1.86 GHz)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 62.1

CPU2006 license:	55	**Test date:**	Sep-2009
Test sponsor:	Dell Inc.	**Hardware Availability:**	Mar-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:	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:	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:	No
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:	4 GB (4 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:	Not Applicable
Other Software:	Binutils 2.18.50.0.7.20080502

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	731	74.4	605	89.8	**622**	**87.5**							
416.gamess	4	1292	60.6	1293	60.6	**1292**	**60.6**							
433.milc	4	**524**	**70.1**	524	70.1	523	70.2							
434.zeusmp	4	617	59.0	613	59.4	**614**	**59.3**							
435.gromacs	4	**536**	**53.3**	536	53.3	536	53.2							
436.cactusADM	4	**781**	**61.2**	779	61.4	792	60.4							
437.leslie3d	4	663	56.7	**666**	**56.5**	667	56.4							
444.namd	4	735	43.7	736	43.6	**735**	**43.7**							
447.dealII	4	**591**	**77.5**	590	77.6	591	77.4							
450.soplex	4	605	55.2	**606**	**55.0**	613	54.4							
453.povray	4	320	66.5	320	66.6	**320**	**66.6**							
454.calculix	4	493	67.0	493	66.9	**493**	**67.0**							
459.GemsFDTD	4	889	47.7	914	46.4	**894**	**47.5**							
465.tonto	4	651	60.4	**652**	**60.4**	652	60.4							
470.lbm	4	1009	54.5	1003	54.8	**1004**	**54.7**							
481.wrf	4	**523**	**85.4**	525	85.2	522	85.6							
482.sphinx3	4	1153	67.6	**1154**	**67.6**	1165	66.9							

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

Submit Notes

```
The config file option 'submit' was used.
 numactl was used to bind copies to the cores
```

Operating System Notes

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

Base Compiler Invocation

C benchmarks:
```
icc
```

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Base Compiler Invocation (Continued)

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`

C++ benchmarks:
`-xSSE4.2 -ipo -O3 -no-prec-div -static`

Fortran benchmarks:
`-xSSE4.2 -ipo -O3 -no-prec-div -static`

Benchmarks using both Fortran and C:
`-xSSE4.2 -ipo -O3 -no-prec-div -static`

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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.20090710.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.20090710.xml

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

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