SPEC® CFP2006 Result

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IBM Corporation

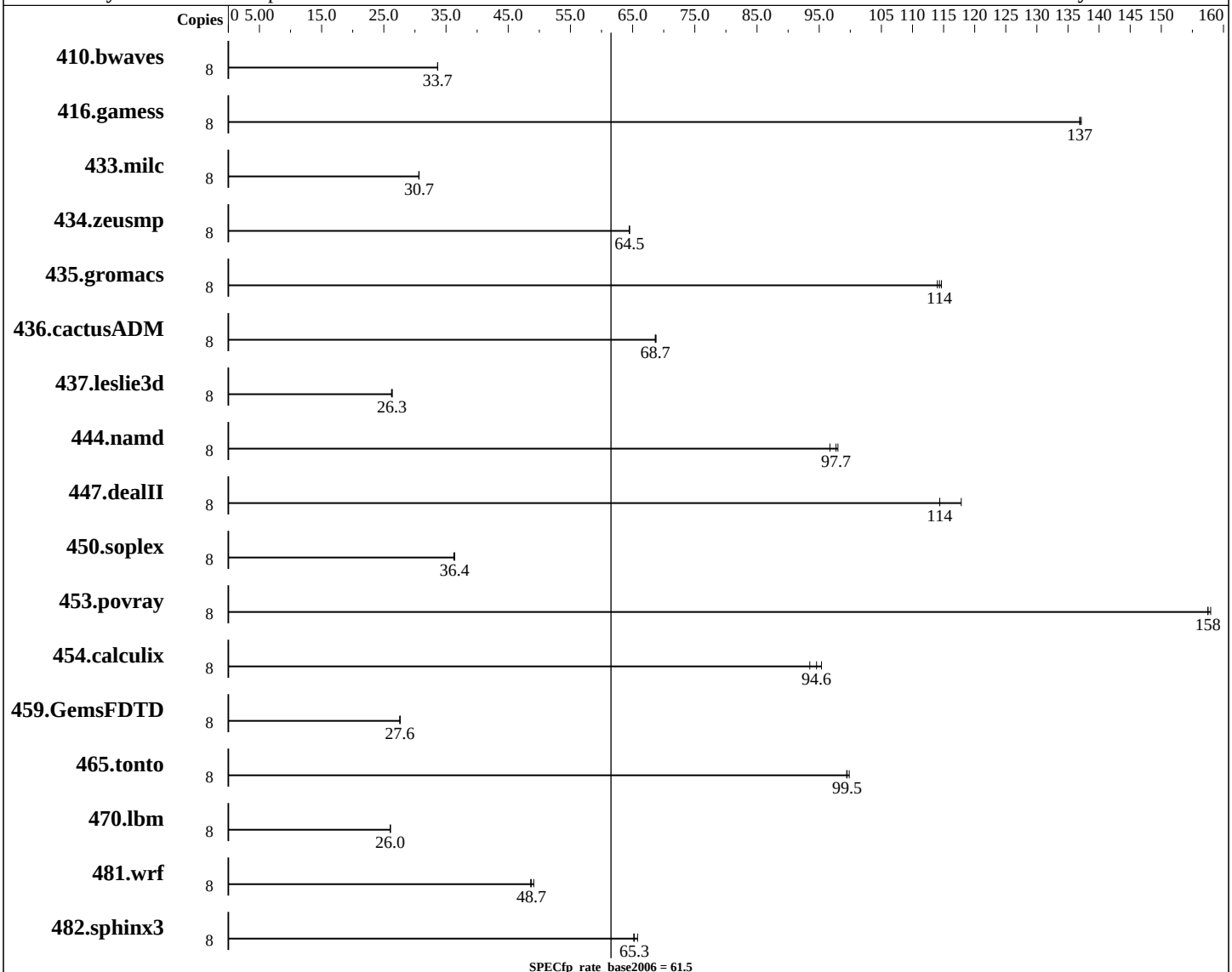
IBM System x3500 (Intel Xeon E5410)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 61.5

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Mar-2008
Hardware Availability: Jan-2008
Software Availability: Nov-2007



Hardware

CPU Name:	Intel Xeon E5410
CPU Characteristics:	1333MHz system bus
CPU MHz:	2333
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:	12 MB I+D on chip per chip, 6 MB shared / 2 cores

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Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64), Kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008, l_fc_p_10.1.008
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2 GB DDR2-5300F ECC)
Disk Subsystem: 1 x 80 GB SATA, 7200 RPM
Other Hardware: None

Peak Pointers: Not Applicable
Other Software: Binutils 2.17.50.0.15

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3229	33.7	3231	33.6	**3231**	**33.7**							
416.gamess	8	**1144**	**137**	1144	137	1142	137							
433.milc	8	**2395**	**30.7**	2399	30.6	2394	30.7							
434.zeusmp	8	1129	64.5	**1129**	**64.5**	1129	64.5							
435.gromacs	8	**500**	**114**	501	114	498	115							
436.cactusADM	8	**1392**	**68.7**	1390	68.8	1393	68.6							
437.leslie3d	8	2866	26.2	**2859**	**26.3**	2853	26.4							
444.namd	8	**657**	**97.7**	663	96.7	655	98.0							
447.dealII	8	777	118	**800**	**114**	800	114							
450.soplex	8	1834	36.4	**1835**	**36.4**	1841	36.2							
453.povray	8	**270**	**158**	270	157	269	158							
454.calculix	8	692	95.4	706	93.5	**698**	**94.6**							
459.GemsFDTD	8	3073	27.6	**3076**	**27.6**	3078	27.6							
465.tonto	8	789	99.8	**791**	**99.5**	792	99.4							
470.lbm	8	4222	26.0	**4221**	**26.0**	4220	26.0							
481.wrf	8	1838	48.6	**1834**	**48.7**	1820	49.1							
482.sphinx3	8	**2388**	**65.3**	2370	65.8	2392	65.2							

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

General Notes

```
All benchmarks compiled in 64-bit mode
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled
taskset utility used to bind CPU(s) to processes
This result is measured on an IBM System x3500 Server. Note
that the IBM System x3500 and IBM System x3400 are electrically
equivalent.
```

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:
-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/Intel-ic10.1-FP-intel64-linux-flags.20090713.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090713.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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