SPEC® CFP2006 Result

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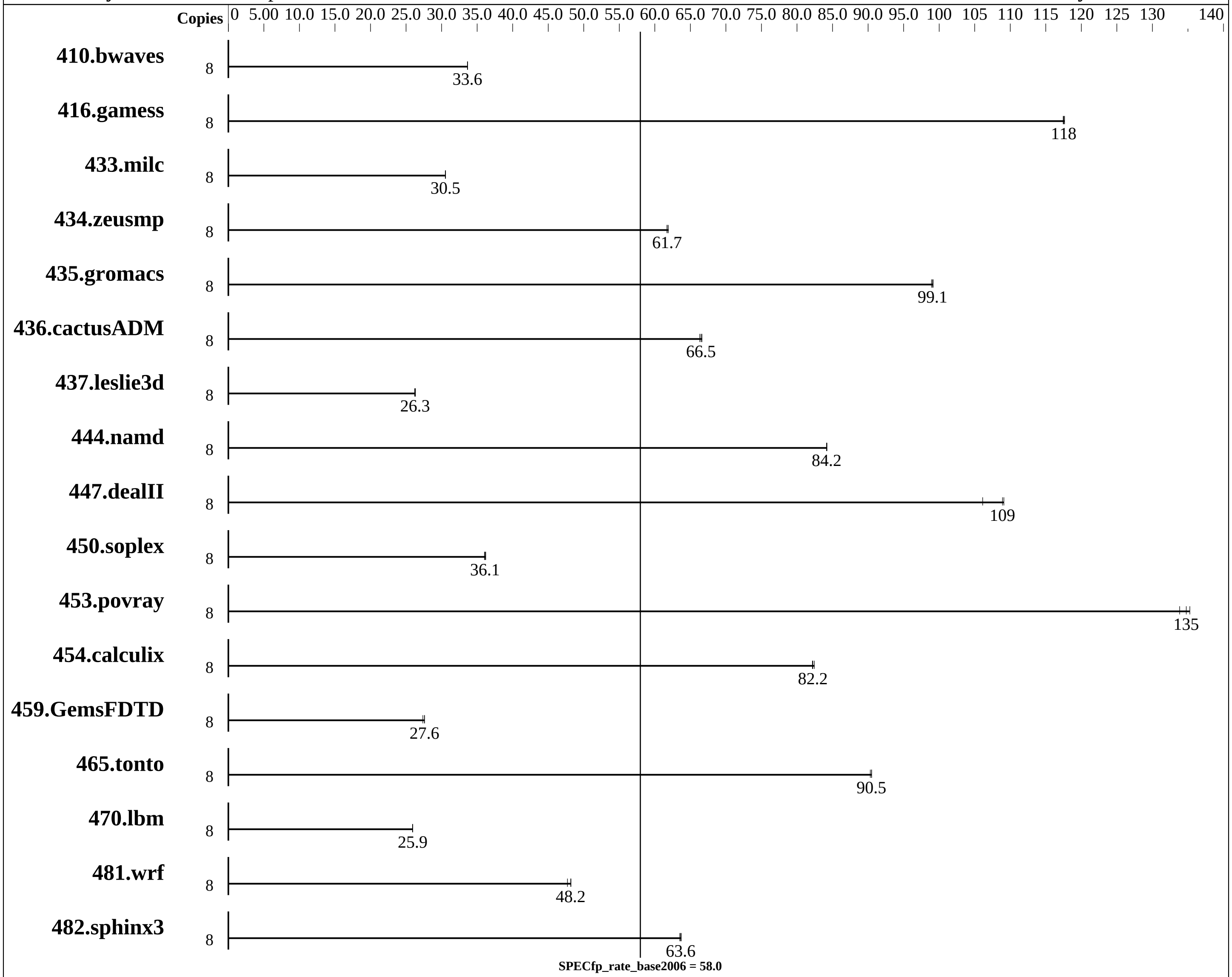
IBM Corporation

IBM System x3400 (Intel Xeon E5405)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 58.0

CPU2006 license:	11	**Test date:**	Mar-2008
Test sponsor:	IBM Corporation	**Hardware Availability:**	Jan-2008
Tested by:	IBM Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Xeon E5405
CPU Characteristics:	1333MHz system bus
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:	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	3230	33.7	**3232**	**33.6**	3232	33.6							
416.gamess	8	1334	117	1331	118	**1333**	**118**							
433.milc	8	2406	30.5	2403	30.6	**2404**	**30.5**							
434.zeusmp	8	**1179**	**61.7**	1180	61.7	1176	61.9							
435.gromacs	8	**577**	**99.1**	577	98.9	576	99.2							
436.cactusADM	8	1435	66.6	**1438**	**66.5**	1442	66.3							
437.leslie3d	8	**2862**	**26.3**	2869	26.2	2857	26.3							
444.namd	8	762	84.2	762	84.2	**762**	**84.2**							
447.dealII	8	**840**	**109**	862	106	839	109							
450.soplex	8	1843	36.2	1852	36.0	**1847**	**36.1**							
453.povray	8	**316**	**135**	318	134	315	135							
454.calculix	8	801	82.4	803	82.2	**803**	**82.2**							
459.GemsFDTD	8	3102	27.4	3076	27.6	**3076**	**27.6**							
465.tonto	8	870	90.5	872	90.3	**870**	**90.5**							
470.lbm	8	4241	25.9	**4239**	**25.9**	4239	25.9							
481.wrf	8	1854	48.2	**1855**	**48.2**	1873	47.7							
482.sphinx3	8	2447	63.7	2455	63.5	**2450**	**63.6**							

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 x 3500 Server. Note
that the IBM Systen x 3500 and IBM System x 3400 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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