SPEC® CFP2006 Result

IBM Corporation

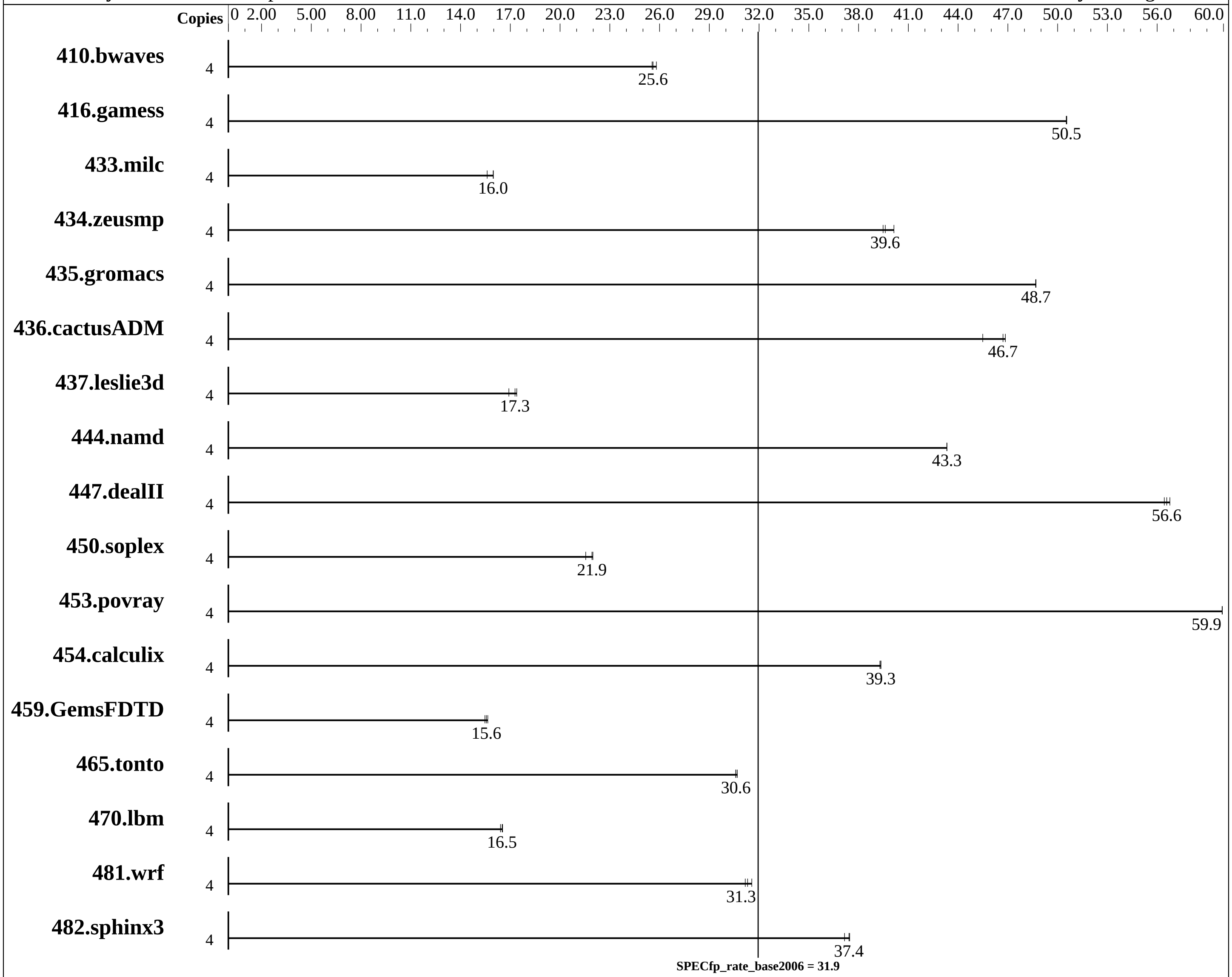
IBM System x3250 (Intel Xeon X3210)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 31.9

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

Test date: Jan-2007
Hardware Availability: Feb-2007
Software Availability: Aug-2006



Hardware

CPU Name:	Intel Xeon X3210
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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

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Software

Operating System:	Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)
Compiler:	Intel C++ Compiler for IA32 version 9.1 Build no 20060816 Intel Fortran Compiler for IA32 version 9.1 Build no 20060816 Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 8 GB (4 x 2GB PC2-5300 ECC)
Disk Subsystem: 1 x 73 GB SAS, 10000 RPM
Other Hardware: None

System State: Default
Base Pointers: 32-bit
Peak Pointers: Not Applicable
Other Software: Smart Heap Library, Version 8

Results Table

	Base							Peak						
Benchmark	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
410.bwaves	4	**2123**	**25.6**	2106	25.8	2128	25.5							
416.gamess	4	**1550**	**50.5**	1549	50.6	1550	50.5							
433.milc	4	2353	15.6	2298	16.0	**2300**	**16.0**							
434.zeusmp	4	922	39.5	907	40.1	**919**	**39.6**							
435.gromacs	4	587	48.7	**587**	**48.7**	587	48.7							
436.cactusADM	4	1051	45.5	**1023**	**46.7**	1020	46.8							
437.leslie3d	4	2223	16.9	2162	17.4	**2175**	**17.3**							
444.namd	4	741	43.3	741	43.3	**741**	**43.3**							
447.dealII	4	**809**	**56.6**	806	56.8	811	56.4							
450.soplex	4	1548	21.5	**1522**	**21.9**	1518	22.0							
453.povray	4	355	59.9	**355**	**59.9**	355	59.9							
454.calculix	4	840	39.3	**839**	**39.3**	839	39.3							
459.GemsFDTD	4	2713	15.6	2743	15.5	**2728**	**15.6**							
465.tonto	4	**1286**	**30.6**	1283	30.7	1287	30.6							
470.lbm	4	3350	16.4	**3330**	**16.5**	3324	16.5							
481.wrf	4	1434	31.2	**1427**	**31.3**	1416	31.6							
482.sphinx3	4	2098	37.2	**2083**	**37.4**	2081	37.5							

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

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc7.1 -Qc99 ifort
```

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Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast /F950000000 -link /FORCE:MULTIPLE

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090714.xml

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

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