SPEC® CFP2006 Result

IBM Corporation

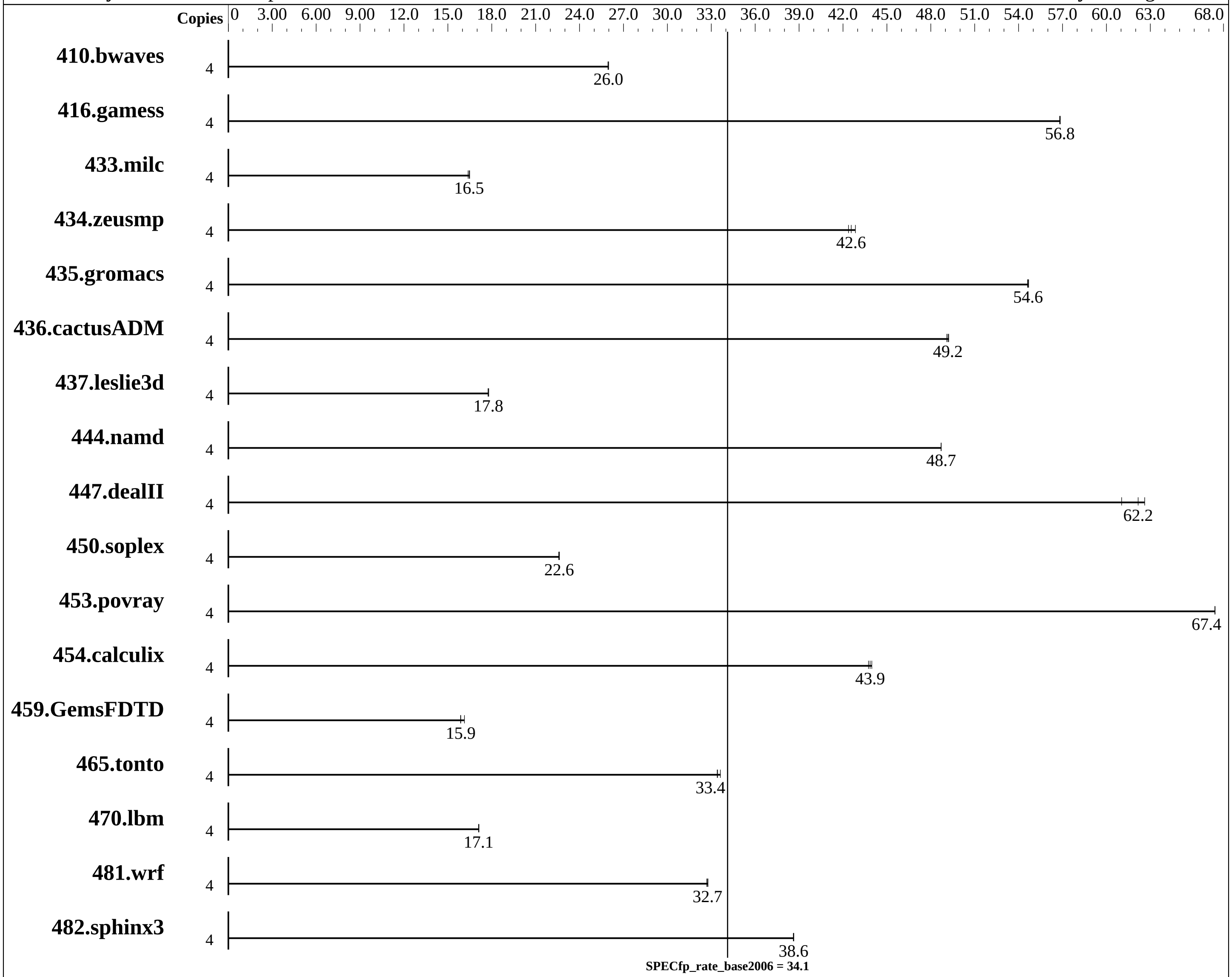
IBM System x3250 (Intel Xeon X3220)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 34.1

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 X3220
CPU Characteristics:	1066MHz system bus
CPU MHz:	2400
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

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**2093**	**26.0**	2096	25.9	2092	26.0							
416.gamess	4	**1378**	**56.8**	1378	56.8	1379	56.8							
433.milc	4	2241	16.4	**2232**	**16.5**	2227	16.5							
434.zeusmp	4	859	42.4	850	42.8	**855**	**42.6**							
435.gromacs	4	523	54.6	522	54.7	**523**	**54.6**							
436.cactusADM	4	974	49.1	**972**	**49.2**	971	49.2							
437.leslie3d	4	2119	17.7	**2116**	**17.8**	2113	17.8							
444.namd	4	**659**	**48.7**	659	48.7	659	48.7							
447.dealII	4	**736**	**62.2**	731	62.6	750	61.0							
450.soplex	4	1478	22.6	**1475**	**22.6**	1475	22.6							
453.povray	4	316	67.4	**316**	**67.4**	316	67.4							
454.calculix	4	754	43.7	751	44.0	**753**	**43.9**							
459.GemsFDTD	4	2631	16.1	**2672**	**15.9**	2675	15.9							
465.tonto	4	1178	33.4	**1177**	**33.4**	1171	33.6							
470.lbm	4	3214	17.1	**3213**	**17.1**	3209	17.1							
481.wrf	4	1363	32.8	1367	32.7	**1364**	**32.7**							
482.sphinx3	4	2019	38.6	2018	38.6	**2018**	**38.6**							

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
```

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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