



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM System x3250 (Intel Xeon X3220)

SPECfp_rate_base2006 = 34.1

CPU2006 license: 11

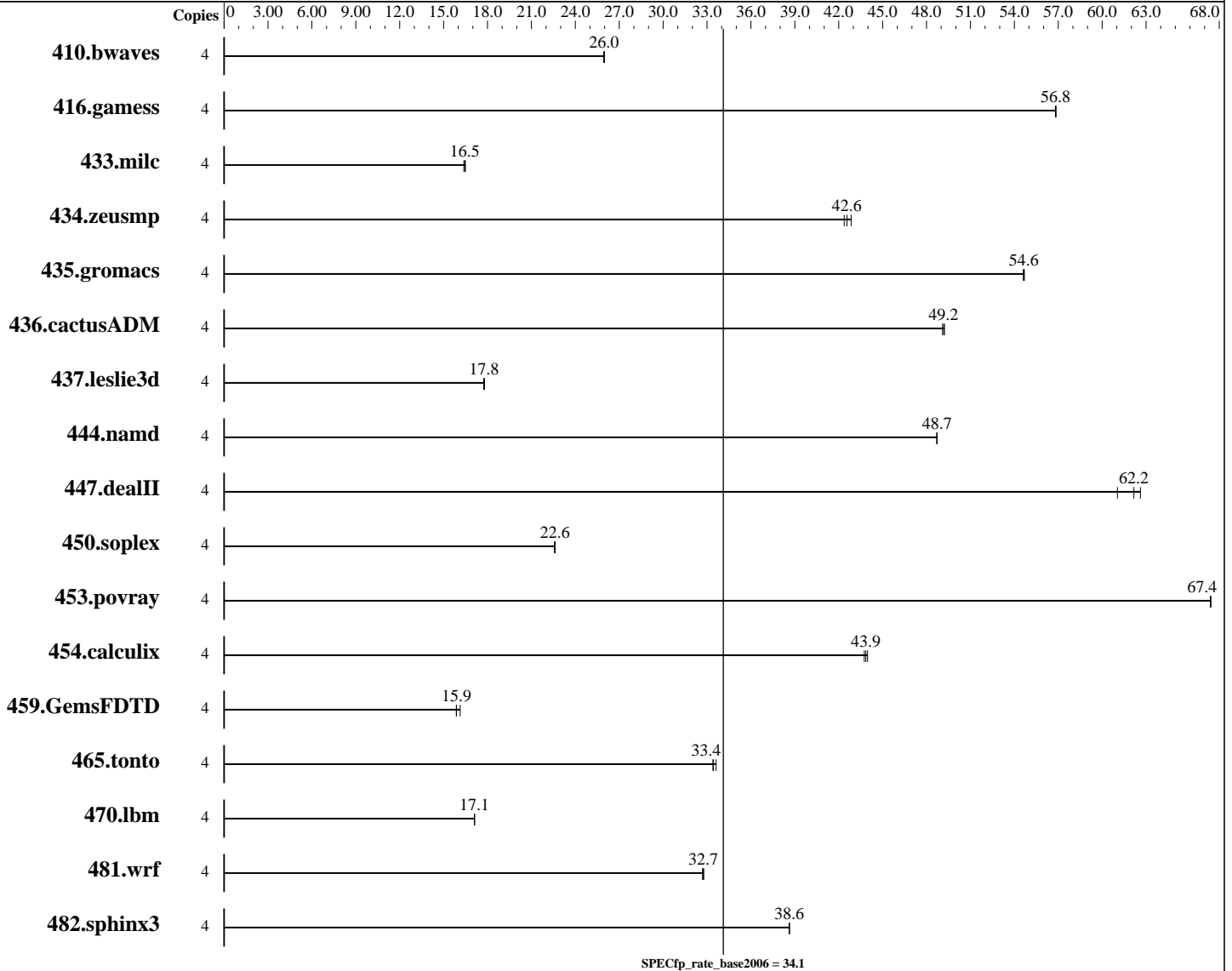
Test sponsor: IBM Corporation

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



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Base Portability Flags

```

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.deallI: -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>

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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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