



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM System x3200 (Intel Xeon X3220)

SPECfp_rate_base2006 = 33.5

CPU2006 license: 11

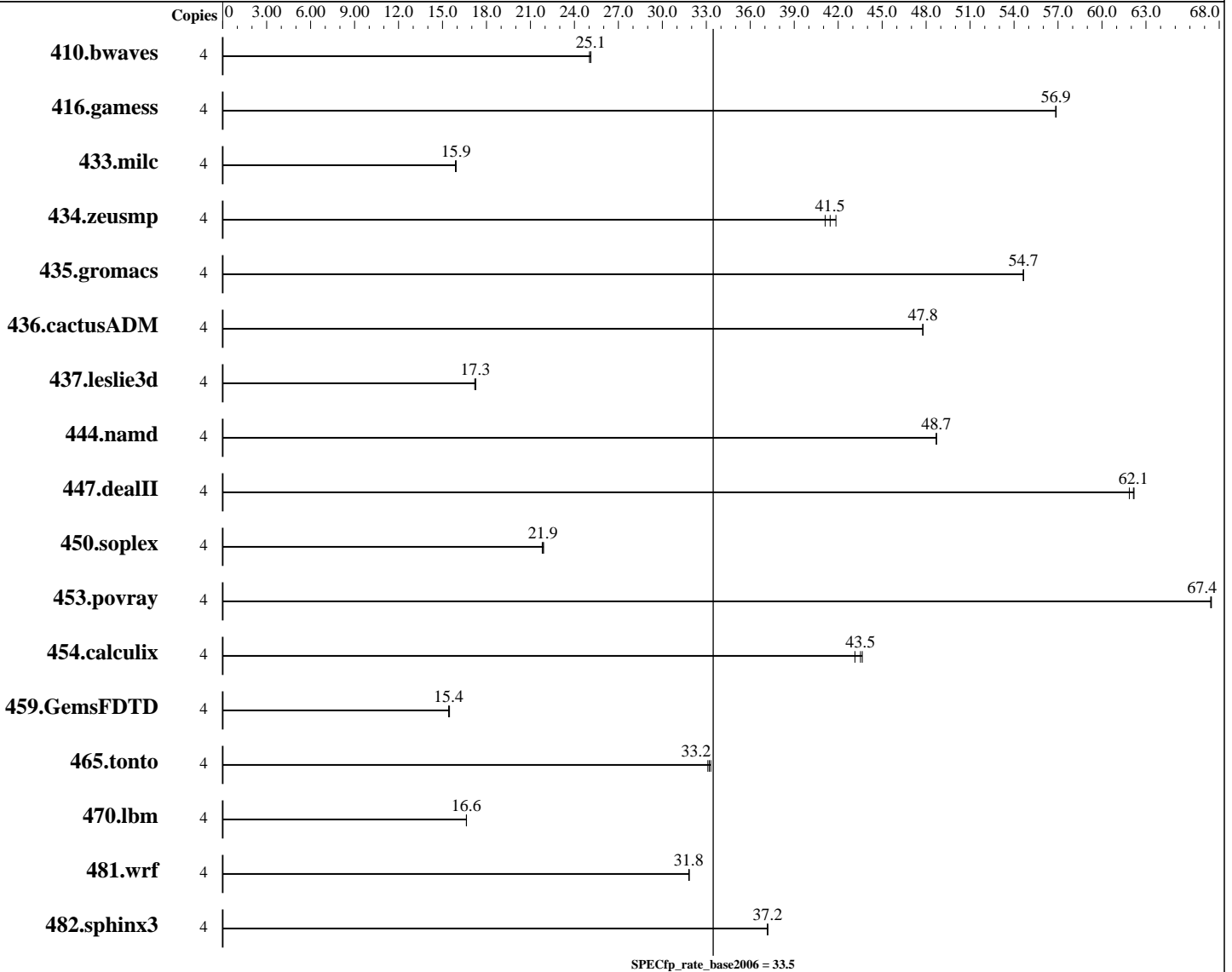
Test sponsor: IBM Corporation

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 80 GB SATA, 7200 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	<u>2165</u>	<u>25.1</u>	2172	25.0	2164	25.1							
416.gamess	4	1377	56.9	1378	56.8	<u>1377</u>	<u>56.9</u>							
433.milc	4	2312	15.9	<u>2307</u>	<u>15.9</u>	2306	15.9							
434.zeusmp	4	<u>878</u>	<u>41.5</u>	885	41.1	870	41.8							
435.gromacs	4	<u>523</u>	<u>54.7</u>	523	54.7	523	54.6							
436.cactusADM	4	1001	47.8	1000	47.8	<u>1000</u>	<u>47.8</u>							
437.leslie3d	4	2186	17.2	<u>2179</u>	<u>17.3</u>	2177	17.3							
444.namd	4	659	48.7	<u>659</u>	<u>48.7</u>	659	48.7							
447.dealII	4	736	62.2	740	61.9	<u>736</u>	<u>62.1</u>							
450.soplex	4	1530	21.8	<u>1527</u>	<u>21.9</u>	1523	21.9							
453.povray	4	<u>316</u>	<u>67.4</u>	315	67.5	316	67.4							
454.calculix	4	765	43.1	<u>758</u>	<u>43.5</u>	756	43.6							
459.GemsFDTD	4	2742	15.5	<u>2751</u>	<u>15.4</u>	2752	15.4							
465.tonto	4	<u>1185</u>	<u>33.2</u>	1189	33.1	1182	33.3							
470.lbm	4	<u>3304</u>	<u>16.6</u>	3305	16.6	3304	16.6							
481.wrf	4	1405	31.8	<u>1405</u>	<u>31.8</u>	1403	31.8							
482.sphinx3	4	<u>2096</u>	<u>37.2</u>	2096	37.2	2098	37.2							

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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