



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon E5310)

SPECfp_base2006 = 8.72

CPU2006 license: 11

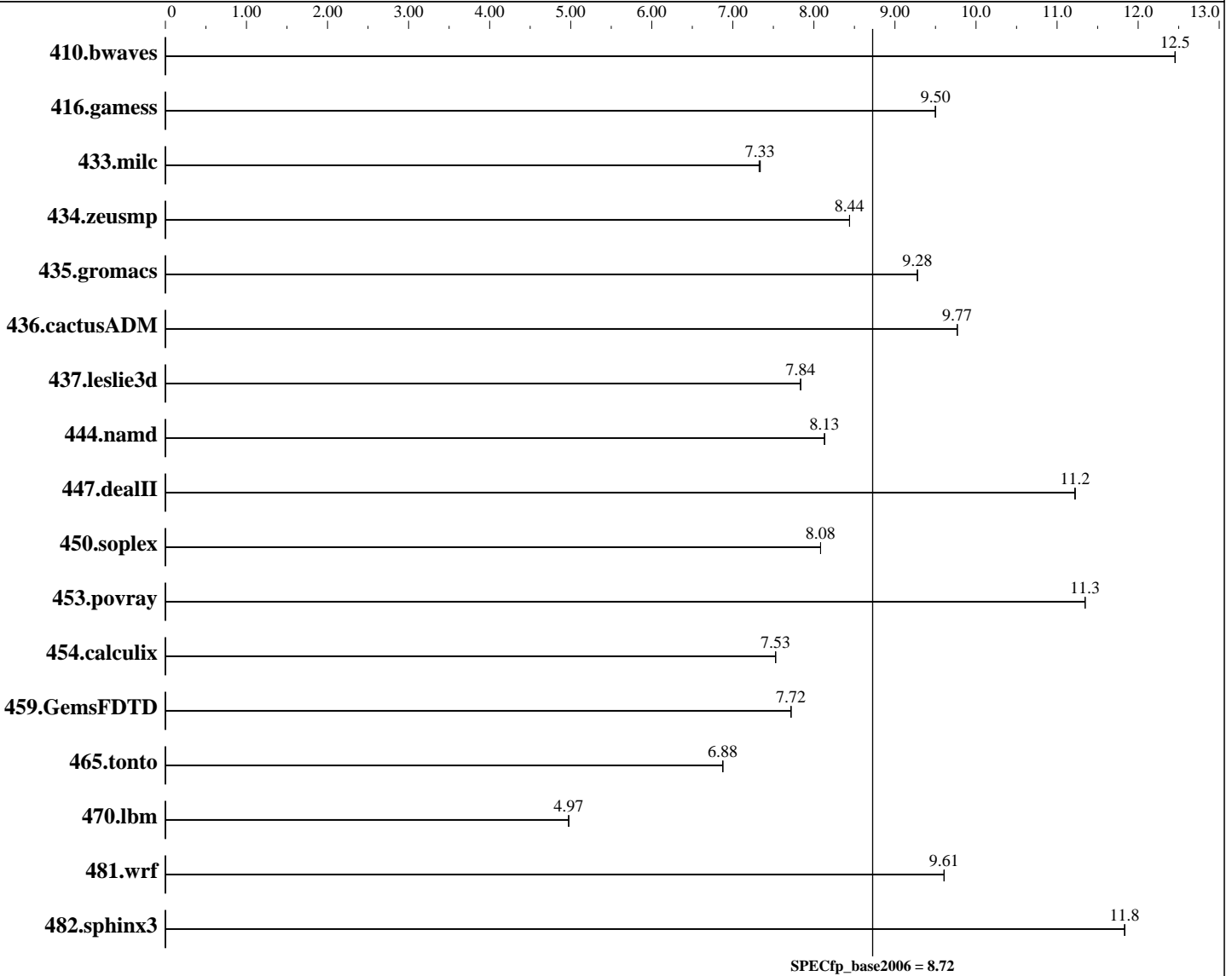
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon E5310
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 1600
 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: 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: 16 GB (8 x 2GB DDR2-5300F ECC)
 Disk Subsystem: 1 x 74 GB SAS, 1000 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	1091	12.5	<u>1091</u>	<u>12.5</u>	1091	12.5						
416.gamess	2061	9.50	<u>2061</u>	<u>9.50</u>	2062	9.50						
433.milc	1251	7.34	<u>1252</u>	<u>7.33</u>	1253	7.32						
434.zeusmp	<u>1078</u>	<u>8.44</u>	1078	8.44	1078	8.44						
435.gromacs	770	9.28	<u>770</u>	<u>9.28</u>	770	9.28						
436.cactusADM	1223	9.77	1223	9.77	<u>1223</u>	<u>9.77</u>						
437.leslie3d	1200	7.84	1200	7.84	<u>1200</u>	<u>7.84</u>						
444.namd	<u>986</u>	<u>8.13</u>	986	8.13	986	8.13						
447.dealII	1019	11.2	<u>1019</u>	<u>11.2</u>	1020	11.2						
450.soplex	1032	8.08	1032	8.08	<u>1032</u>	<u>8.08</u>						
453.povray	469	11.3	<u>469</u>	<u>11.3</u>	469	11.3						
454.calculix	<u>1096</u>	<u>7.53</u>	1096	7.53	1096	7.53						
459.GemsFDTD	1375	7.72	1375	7.72	<u>1375</u>	<u>7.72</u>						
465.tonto	<u>1431</u>	<u>6.88</u>	1431	6.87	1431	6.88						
470.lbm	<u>2762</u>	<u>4.97</u>	2762	4.98	2762	4.97						
481.wrf	1163	9.61	1163	9.61	<u>1163</u>	<u>9.61</u>						
482.sphinx3	1647	11.8	1647	11.8	<u>1647</u>	<u>11.8</u>						

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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