



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5160)

SPECfp_rate_base2006 = 41.4

CPU2006 license: 11

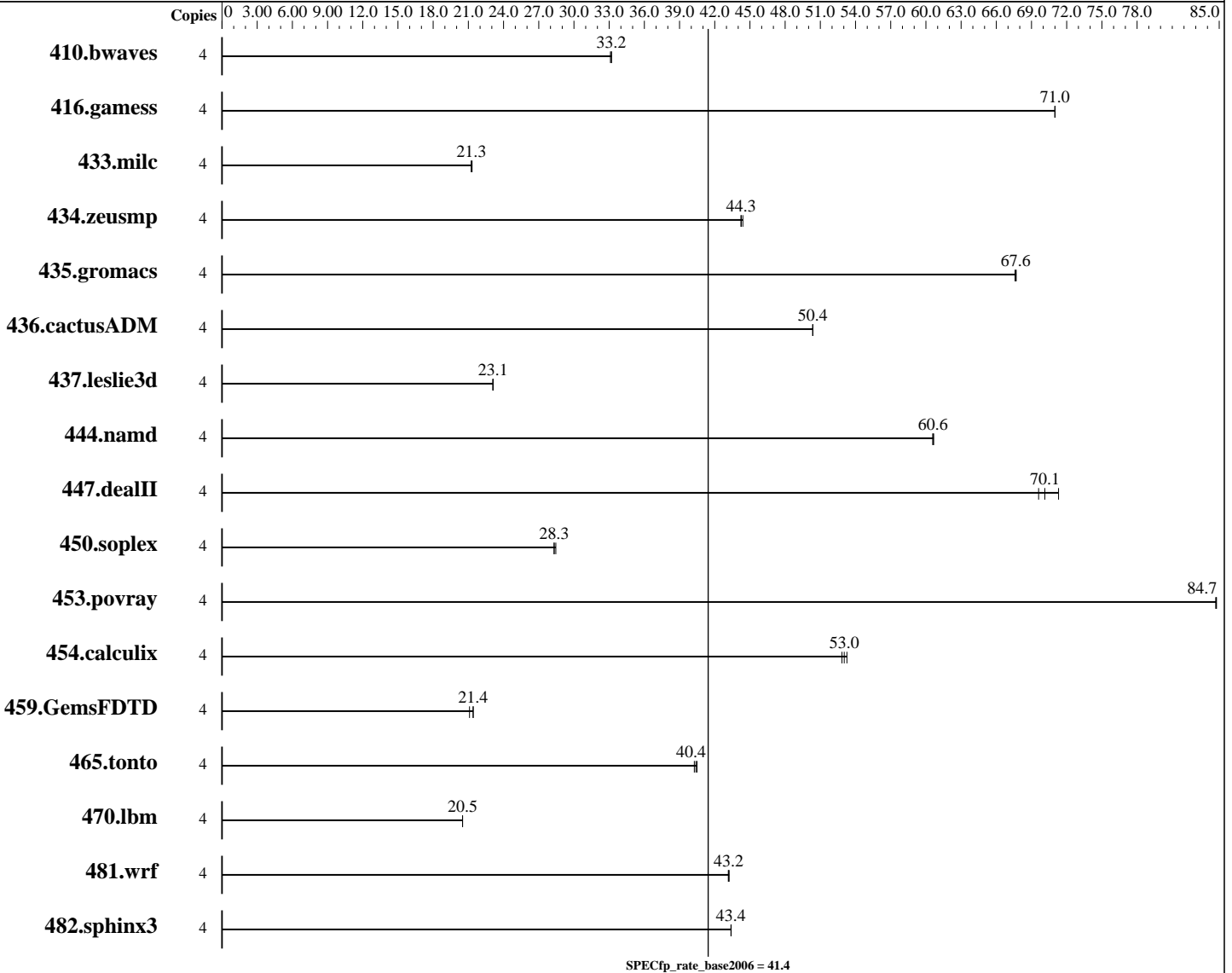
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

Continued on next page

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<u>1638</u>	<u>33.2</u>	1637	33.2	1642	33.1							
416.gamess	4	1103	71.0	1103	71.0	<u>1103</u>	<u>71.0</u>							
433.milc	4	1728	21.2	<u>1727</u>	<u>21.3</u>	1723	21.3							
434.zeusmp	4	<u>822</u>	<u>44.3</u>	820	44.4	823	44.2							
435.gromacs	4	422	67.7	<u>422</u>	<u>67.6</u>	423	67.6							
436.cactusADM	4	<u>949</u>	<u>50.4</u>	949	50.4	949	50.4							
437.leslie3d	4	1627	23.1	<u>1628</u>	<u>23.1</u>	1629	23.1							
444.namd	4	529	60.7	<u>529</u>	<u>60.6</u>	530	60.6							
447.dealII	4	<u>652</u>	<u>70.1</u>	642	71.3	657	69.6							
450.soplex	4	1178	28.3	<u>1178</u>	<u>28.3</u>	1172	28.5							
453.povray	4	251	84.8	<u>251</u>	<u>84.7</u>	251	84.7							
454.calculix	4	620	53.3	<u>622</u>	<u>53.0</u>	624	52.8							
459.GemsFDTD	4	<u>1983</u>	<u>21.4</u>	2011	21.1	1982	21.4							
465.tonto	4	978	40.3	<u>974</u>	<u>40.4</u>	972	40.5							
470.lbm	4	2680	20.5	<u>2680</u>	<u>20.5</u>	2680	20.5							
481.wrf	4	1035	43.2	<u>1035</u>	<u>43.2</u>	1034	43.2							
482.sphinx3	4	1796	43.4	<u>1797</u>	<u>43.4</u>	1797	43.4							

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>

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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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