



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon E5335)

SPECfp_rate_base2006 = 48.7

CPU2006 license: 11

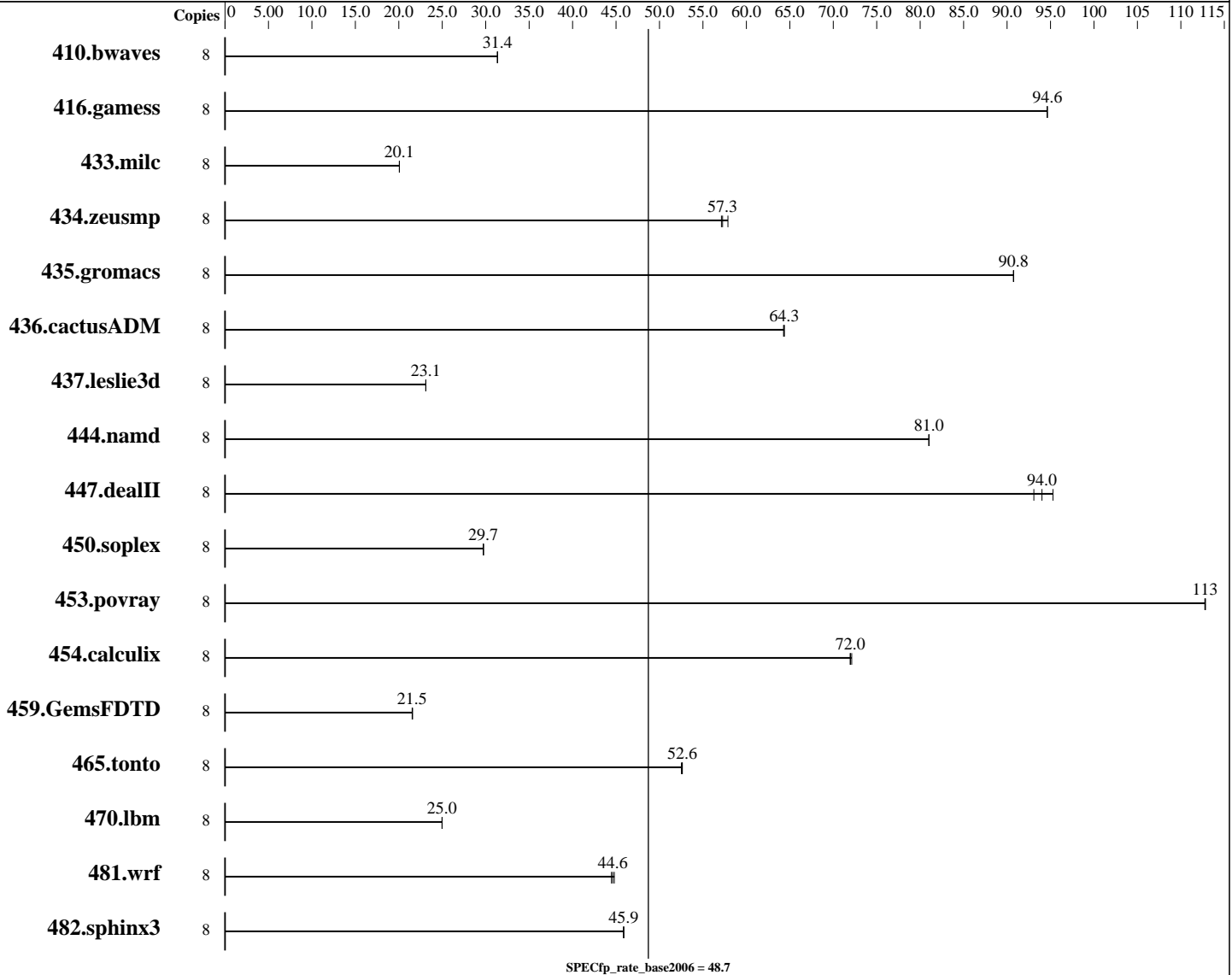
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon E5335
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2000
 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							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	8	3468	31.4	<u>3467</u>	<u>31.4</u>	3467	31.4									
416.gamess	8	<u>1655</u>	<u>94.6</u>	1656	94.6	1655	94.6									
433.milc	8	3659	20.1	<u>3660</u>	<u>20.1</u>	3661	20.1									
434.zeusmp	8	1274	57.1	<u>1271</u>	<u>57.3</u>	1258	57.9									
435.gromacs	8	630	90.7	<u>629</u>	<u>90.8</u>	629	90.8									
436.cactusADM	8	1487	64.3	<u>1486</u>	<u>64.3</u>	1485	64.4									
437.leslie3d	8	3254	23.1	<u>3254</u>	<u>23.1</u>	3255	23.1									
444.namd	8	792	81.0	792	81.0	<u>792</u>	<u>81.0</u>									
447.dealII	8	983	93.1	<u>973</u>	<u>94.0</u>	961	95.3									
450.soplex	8	2245	29.7	2242	29.8	<u>2245</u>	<u>29.7</u>									
453.povray	8	377	113	<u>377</u>	<u>113</u>	377	113									
454.calculix	8	917	71.9	915	72.1	<u>917</u>	<u>72.0</u>									
459.GemsFDTD	8	<u>3940</u>	<u>21.5</u>	3941	21.5	3932	21.6									
465.tonto	8	1496	52.6	<u>1496</u>	<u>52.6</u>	1499	52.5									
470.lbm	8	<u>4400</u>	<u>25.0</u>	4401	25.0	4400	25.0									
481.wrf	8	2009	44.5	<u>2003</u>	<u>44.6</u>	1995	44.8									
482.sphinx3	8	<u>3398</u>	<u>45.9</u>	3400	45.9	3398	45.9									

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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