



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®_rate2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon E5345)

SPECfp_rate_base2006 = 51.7

CPU2006 license: 11

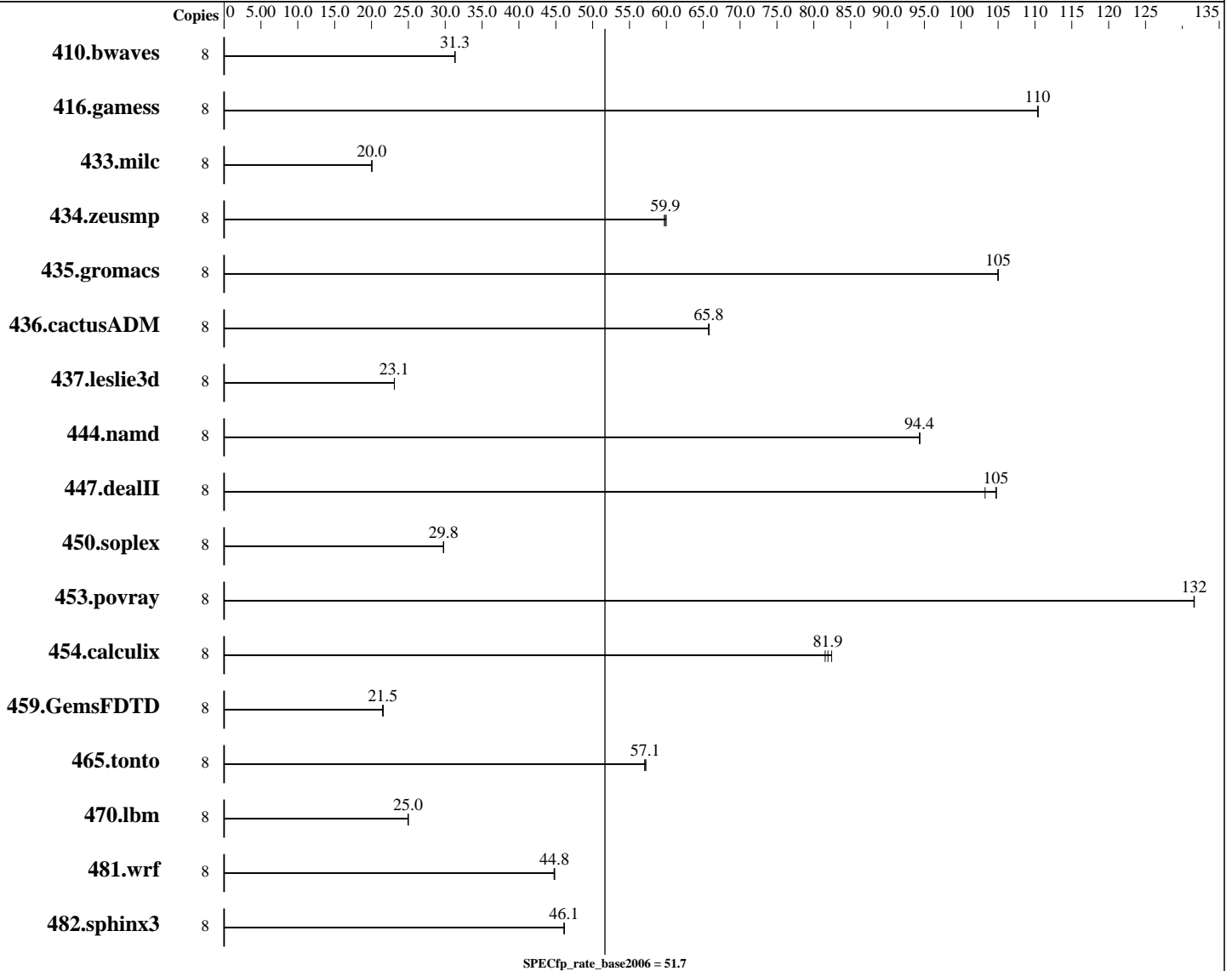
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon E5345
 CPU Characteristics: 1333MHz system bus
 CPU MHz: 2333
 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	3472	31.3	<u>3472</u>	<u>31.3</u>	3470	31.3							
416.gamess	8	1418	110	<u>1419</u>	<u>110</u>	1419	110							
433.milc	8	3666	20.0	3663	20.0	<u>3664</u>	<u>20.0</u>							
434.zeusmp	8	1214	60.0	<u>1216</u>	<u>59.9</u>	1219	59.7							
435.gromacs	8	<u>544</u>	<u>105</u>	544	105	544	105							
436.cactusADM	8	1454	65.7	<u>1454</u>	<u>65.8</u>	1453	65.8							
437.leslie3d	8	3256	23.1	<u>3256</u>	<u>23.1</u>	3256	23.1							
444.namd	8	680	94.4	680	94.3	<u>680</u>	<u>94.4</u>							
447.dealII	8	887	103	<u>874</u>	<u>105</u>	873	105							
450.soplex	8	2243	29.7	<u>2240</u>	<u>29.8</u>	2239	29.8							
453.povray	8	323	132	323	132	<u>323</u>	<u>132</u>							
454.calculix	8	801	82.4	<u>806</u>	<u>81.9</u>	809	81.5							
459.GemsFDTD	8	<u>3941</u>	<u>21.5</u>	3930	21.6	3945	21.5							
465.tonto	8	<u>1378</u>	<u>57.1</u>	1380	57.1	1376	57.2							
470.lbm	8	<u>4402</u>	<u>25.0</u>	4402	25.0	4401	25.0							
481.wrf	8	1993	44.8	<u>1993</u>	<u>44.8</u>	1996	44.8							
482.sphinx3	8	3379	46.1	3380	46.1	<u>3379</u>	<u>46.1</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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:40:16 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 March 2007.