SPEC® CFP2006 Result

IBM Corporation

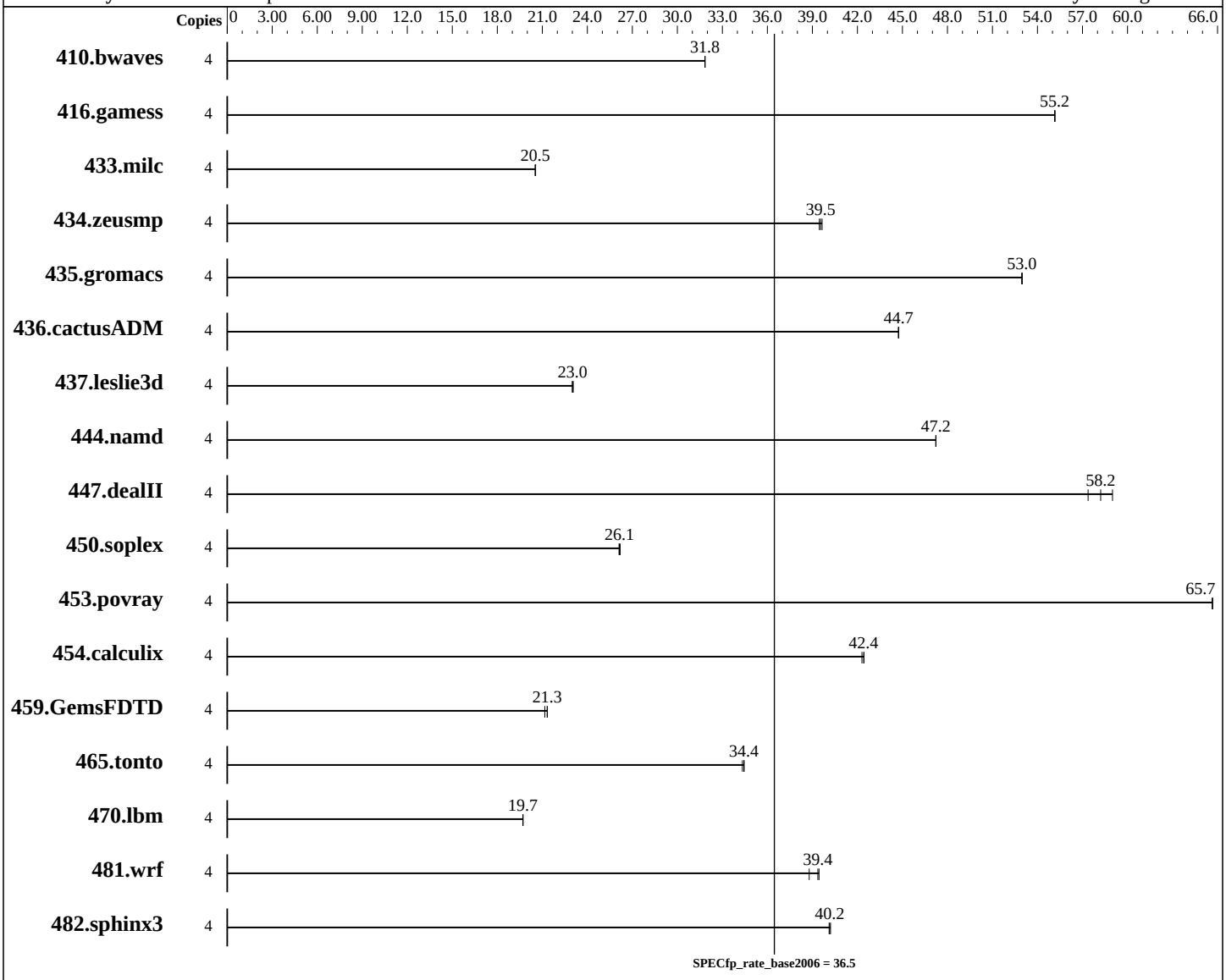
IBM BladeCenter HS21 XM (Intel Xeon 5140)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 36.5

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 5140
CPU Characteristics:	1333MHz system bus
CPU MHz:	2333
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

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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	System State:	Default
Other Cache:	None	Base Pointers:	32-bit
Memory:	16 GB (8 x 2GB DDR2-5300F ECC)	Peak Pointers:	Not Applicable
Disk Subsystem:	1 x 74 GB SAS, 1000 RPM	Other Software:	Smart Heap Library, Version 8
Other Hardware:	None		

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1707	31.8	**1707**	**31.8**	1708	31.8							
416.gamess	4	1420	55.2	**1420**	**55.2**	1420	55.2							
433.milc	4	1787	20.6	**1788**	**20.5**	1790	20.5							
434.zeusmp	4	918	39.6	**920**	**39.5**	922	39.5							
435.gromacs	4	**539**	**53.0**	539	53.0	539	53.0							
436.cactusADM	4	**1068**	**44.7**	1068	44.7	1068	44.7							
437.leslie3d	4	**1633**	**23.0**	1630	23.1	1635	23.0							
444.namd	4	679	47.2	679	47.2	**679**	**47.2**							
447.dealII	4	**786**	**58.2**	776	59.0	798	57.4							
450.soplex	4	**1276**	**26.1**	1278	26.1	1274	26.2							
453.povray	4	324	65.7	**324**	**65.7**	324	65.7							
454.calculix	4	780	42.3	778	42.4	**778**	**42.4**							
459.GemsFDTD	4	2005	21.2	1989	21.3	**1991**	**21.3**							
465.tonto	4	1143	34.4	**1143**	**34.4**	1146	34.3							
470.lbm	4	**2789**	**19.7**	2789	19.7	2789	19.7							
481.wrf	4	**1135**	**39.4**	1152	38.8	1133	39.4							
482.sphinx3	4	1944	40.1	**1942**	**40.2**	1939	40.2							

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
```

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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