SPEC® CFP2006 Result

IBM Corporation

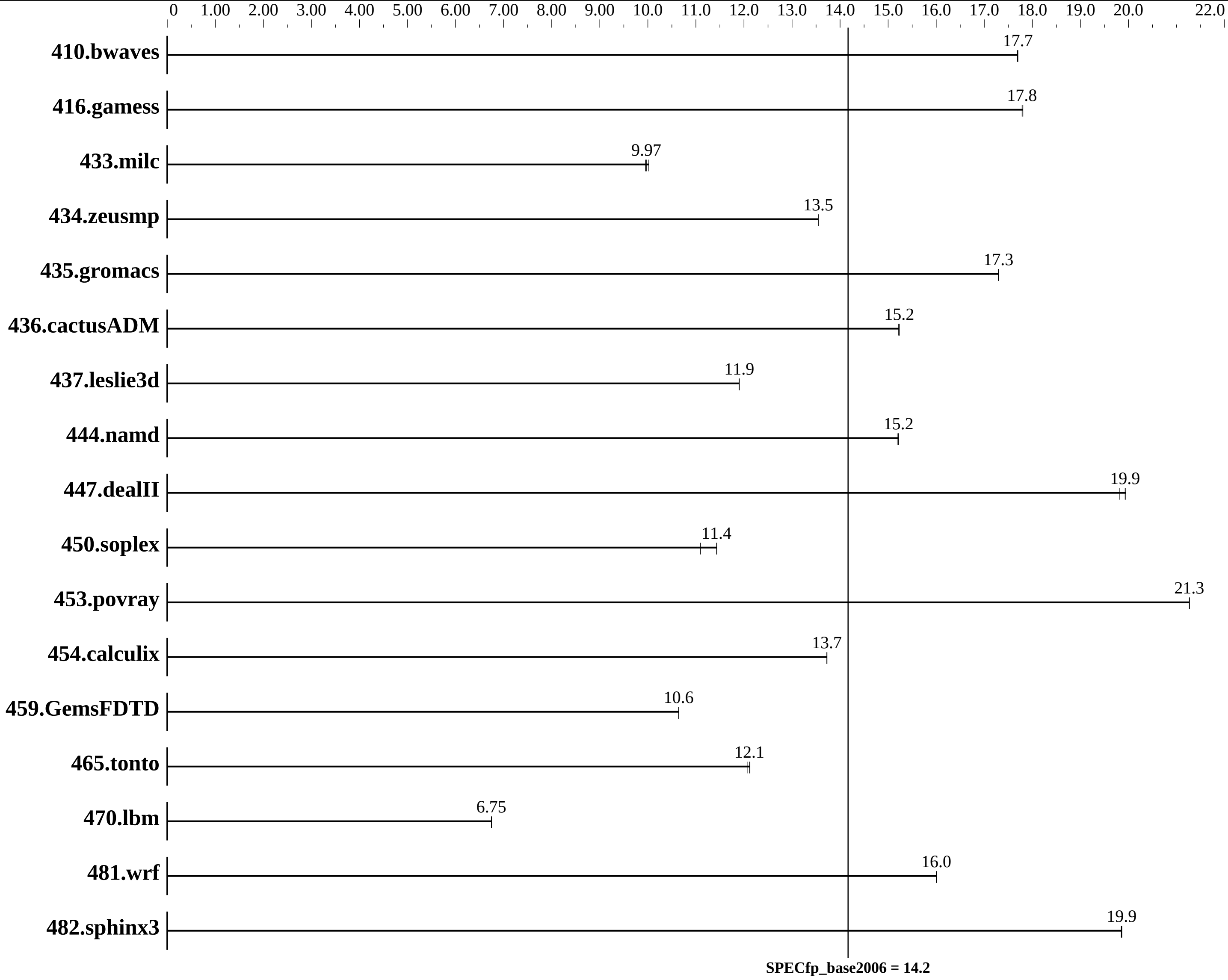
SPECfp®2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5160)

SPECfp_base2006 = 14.2

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

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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	768	17.7	**768**	**17.7**	768	17.7						
416.gamess	**1101**	**17.8**	1101	17.8	1100	17.8						
433.milc	**921**	**9.97**	916	10.0	922	9.95						
434.zeusmp	672	13.5	**672**	**13.5**	672	13.5						
435.gromacs	413	17.3	413	17.3	**413**	**17.3**						
436.cactusADM	785	15.2	**785**	**15.2**	785	15.2						
437.leslie3d	790	11.9	**790**	**11.9**	790	11.9						
444.namd	527	15.2	**527**	**15.2**	528	15.2						
447.dealII	577	19.8	**574**	**19.9**	574	19.9						
450.soplex	752	11.1	729	11.4	**730**	**11.4**						
453.povray	250	21.3	**250**	**21.3**	250	21.3						
454.calculix	601	13.7	**601**	**13.7**	601	13.7						
459.GemsFDTD	997	10.6	**997**	**10.6**	997	10.6						
465.tonto	815	12.1	812	12.1	**812**	**12.1**						
470.lbm	**2037**	**6.75**	2036	6.75	2037	6.75						
481.wrf	**698**	**16.0**	698	16.0	698	16.0						
482.sphinx3	982	19.8	**981**	**19.9**	981	19.9						

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
```

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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