



SPEC[®] CFP2006 Result

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SPECfp[®]2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5160)

SPECfp_base2006 = 14.2

CPU2006 license: 11

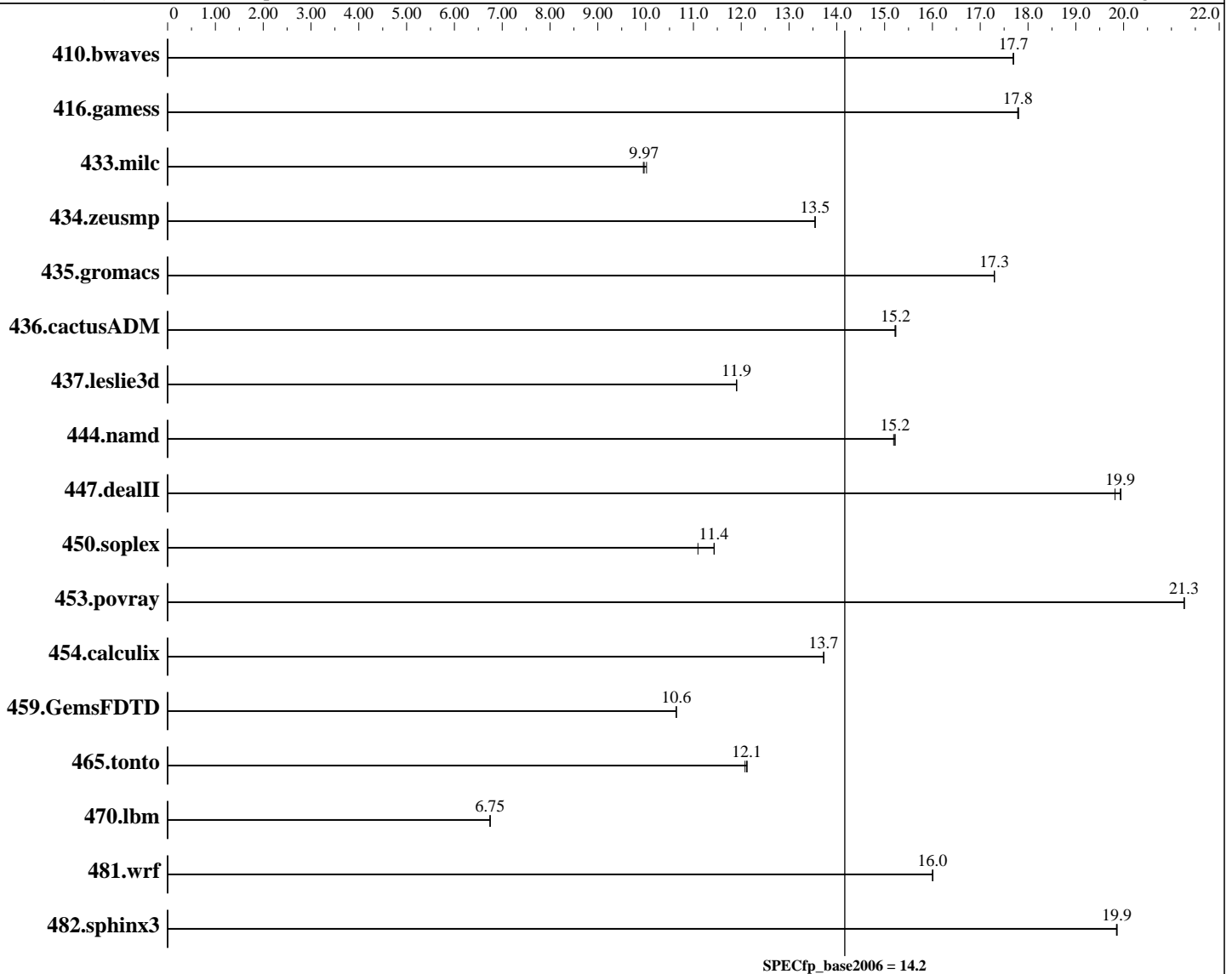
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



SPECfp_base2006 = 14.2

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



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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.

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