



SPEC® CFP2006 Result

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IBM Corporation

SPECfp®2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5140)

SPECfp_base2006 = 12.0

CPU2006 license: 11

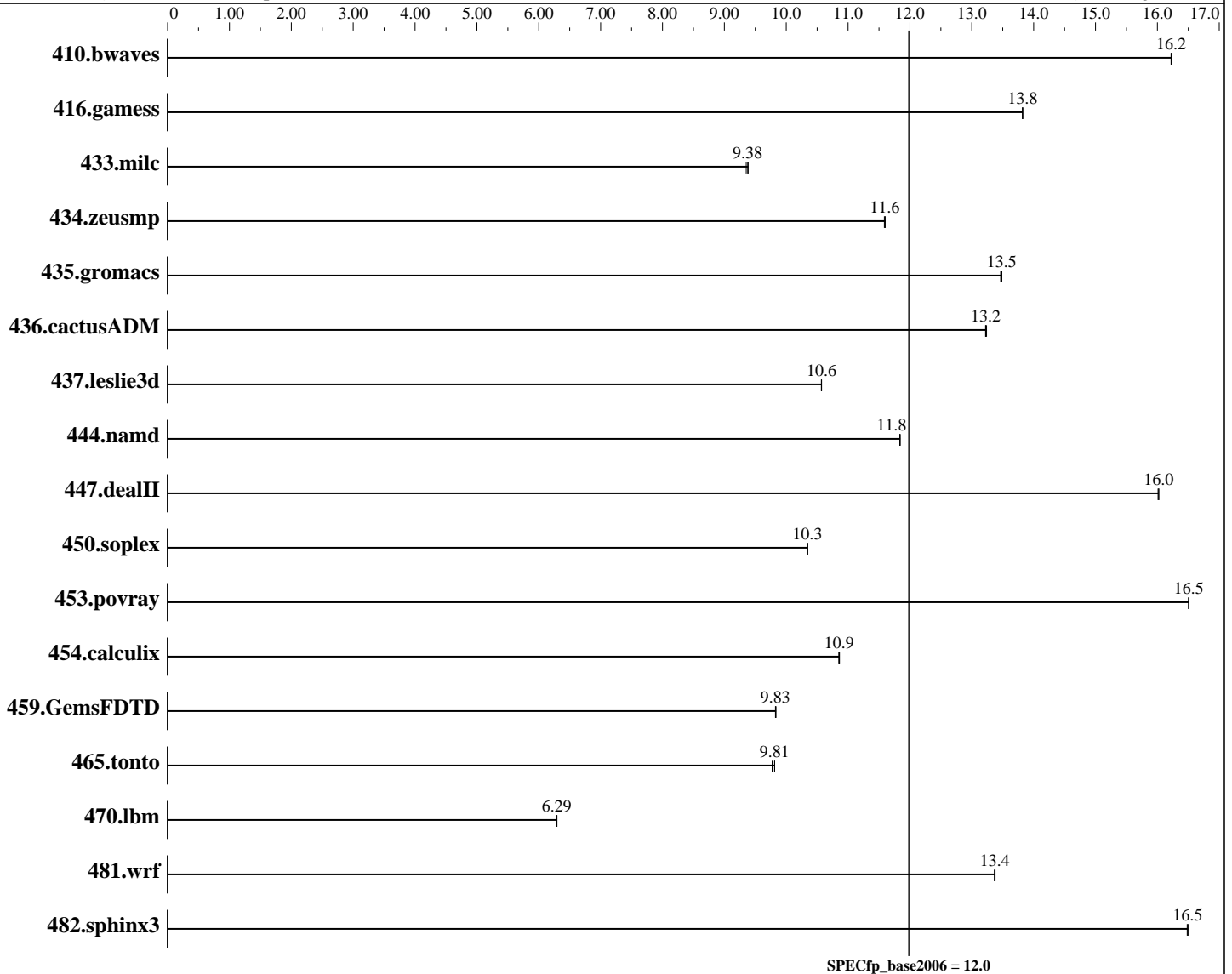
Test sponsor: IBM Corporation

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
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	838	16.2	838	16.2	838	16.2						
416.gamess	1417	13.8	1417	13.8	1417	13.8						
433.milc	978	9.38	979	9.38	981	9.35						
434.zeusmp	785	11.6	785	11.6	785	11.6						
435.gromacs	530	13.5	529	13.5	530	13.5						
436.cactusADM	904	13.2	903	13.2	904	13.2						
437.leslie3d	889	10.6	889	10.6	890	10.6						
444.namd	678	11.8	677	11.8	678	11.8						
447.dealII	714	16.0	714	16.0	715	16.0						
450.soplex	806	10.3	806	10.3	806	10.3						
453.povray	322	16.5	322	16.5	322	16.5						
454.calculix	760	10.9	760	10.9	760	10.8						
459.GemsFDTD	1079	9.84	1080	9.83	1080	9.83						
465.tonto	1007	9.77	1003	9.81	1003	9.81						
470.lbm	2183	6.29	2185	6.29	2184	6.29						
481.wrf	835	13.4	836	13.4	835	13.4						
482.sphinx3	1182	16.5	1182	16.5	1182	16.5						

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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