



SPEC[®] CFP2006 Result

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SPECfp[®]2006 = Not Run

IBM BladeCenter HS21 XM (Intel Xeon 5110)

SPECfp_base2006 = 8.72

CPU2006 license: 11

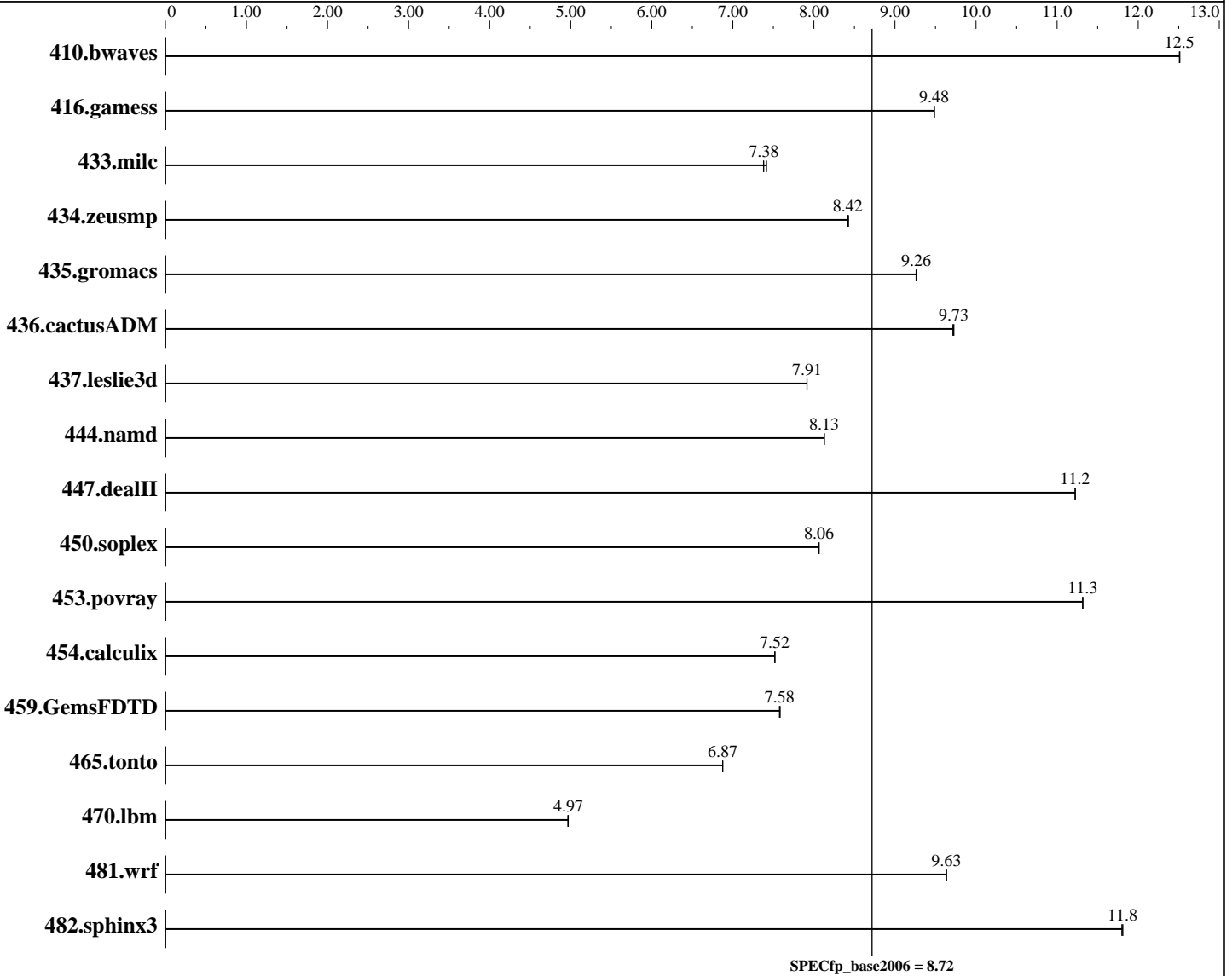
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1066MHz system bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1 chip
 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	1086	12.5	1086	12.5	1086	12.5						
416.gamess	2064	9.49	2065	9.48	2064	9.48						
433.milc	1238	7.42	1244	7.38	1244	7.38						
434.zeusmp	1080	8.43	1081	8.42	1081	8.42						
435.gromacs	770	9.27	771	9.26	771	9.26						
436.cactusADM	1229	9.73	1230	9.71	1229	9.73						
437.leslie3d	1187	7.92	1188	7.91	1188	7.91						
444.namd	987	8.13	987	8.13	987	8.13						
447.dealII	1019	11.2	1019	11.2	1019	11.2						
450.soplex	1035	8.06	1034	8.06	1034	8.06						
453.povray	470	11.3	470	11.3	470	11.3						
454.calculix	1097	7.52	1097	7.52	1097	7.52						
459.GemsFDTD	1399	7.58	1400	7.58	1400	7.58						
465.tonto	1431	6.88	1432	6.87	1431	6.87						
470.lbm	2765	4.97	2768	4.96	2765	4.97						
481.wrf	1159	9.63	1159	9.63	1159	9.63						
482.sphinx3	1650	11.8	1650	11.8	1652	11.8						

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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