SPEC® CFP2006 Result

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IBM Corporation

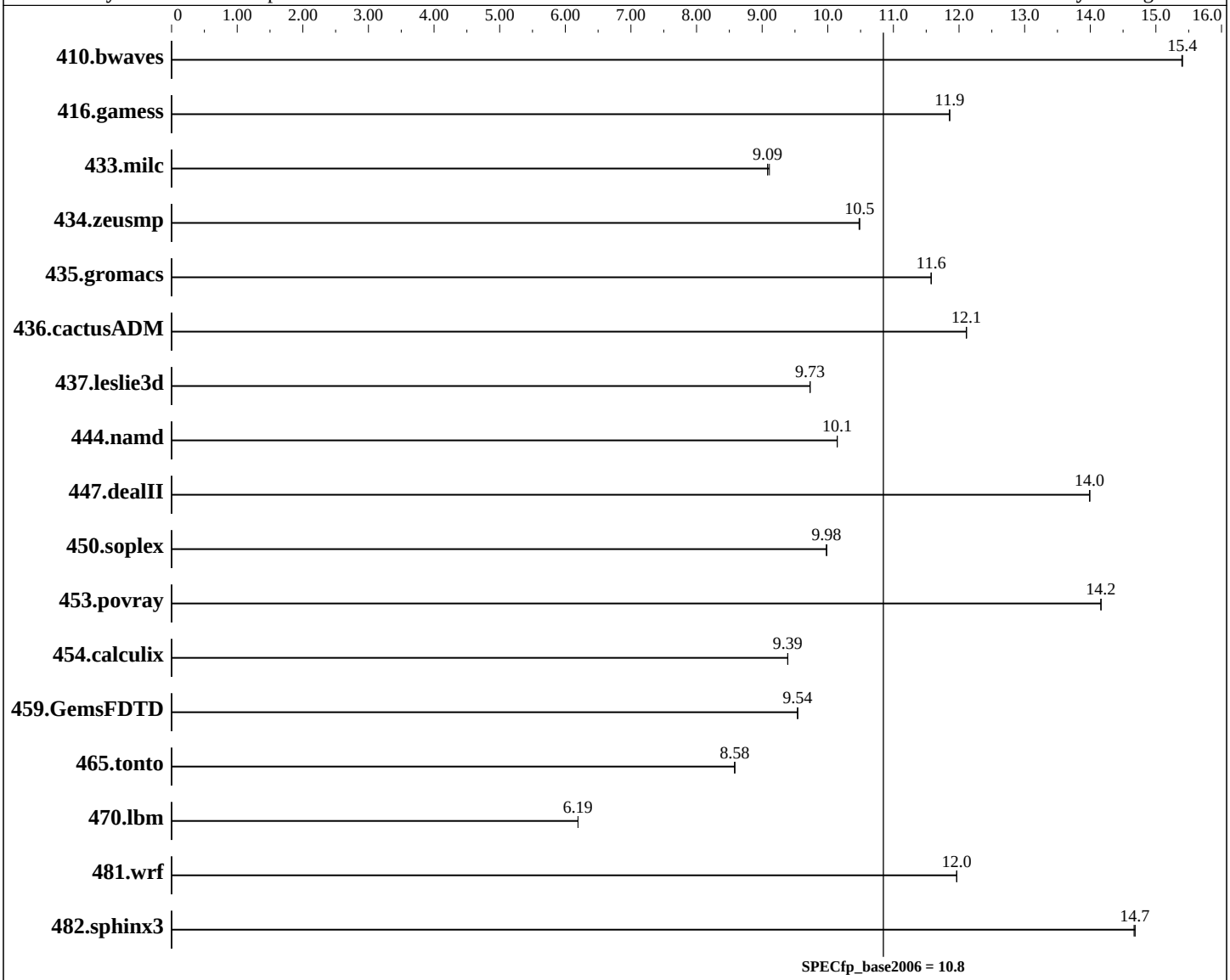
IBM System x3500 (Intel Xeon E5335)

SPECfp®2006 = Not Run

SPECfp_base2006 = 10.8

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 E5335
CPU Characteristics:	1066MHz system bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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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: 8 GB (8 x 1GB DDR2-5300F ECC)
Disk Subsystem: 1 x 80 GB SATA, 7200 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	883	15.4	**882**	**15.4**	882	15.4						
416.gamess	1651	11.9	**1651**	**11.9**	1651	11.9						
433.milc	1011	9.08	1008	9.11	**1010**	**9.09**						
434.zeusmp	**868**	**10.5**	869	10.5	868	10.5						
435.gromacs	617	11.6	**617**	**11.6**	617	11.6						
436.cactusADM	987	12.1	**987**	**12.1**	987	12.1						
437.leslie3d	966	9.73	**966**	**9.73**	966	9.73						
444.namd	**791**	**10.1**	791	10.1	791	10.1						
447.dealII	**818**	**14.0**	818	14.0	818	14.0						
450.soplex	836	9.98	836	9.98	**836**	**9.98**						
453.povray	376	14.2	376	14.2	**376**	**14.2**						
454.calculix	**879**	**9.39**	879	9.39	879	9.39						
459.GemsFDTD	1112	9.54	1112	9.54	**1112**	**9.54**						
465.tonto	1146	8.58	**1147**	**8.58**	1147	8.58						
470.lbm	**2218**	**6.19**	2218	6.19	2218	6.19						
481.wrf	933	12.0	**934**	**12.0**	934	12.0						
482.sphinx3	1329	14.7	**1328**	**14.7**	1327	14.7						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
This result was measured on an IBM System X 3400.   IBM System X 3400 and IBM System
X 3500 are electronically equivalent.
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

Continued on next page

Base Compiler Invocation (Continued)

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

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For other inquiries, please contact webmaster@spec.org.

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