SPEC® CFP2006 Result

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IBM Corporation

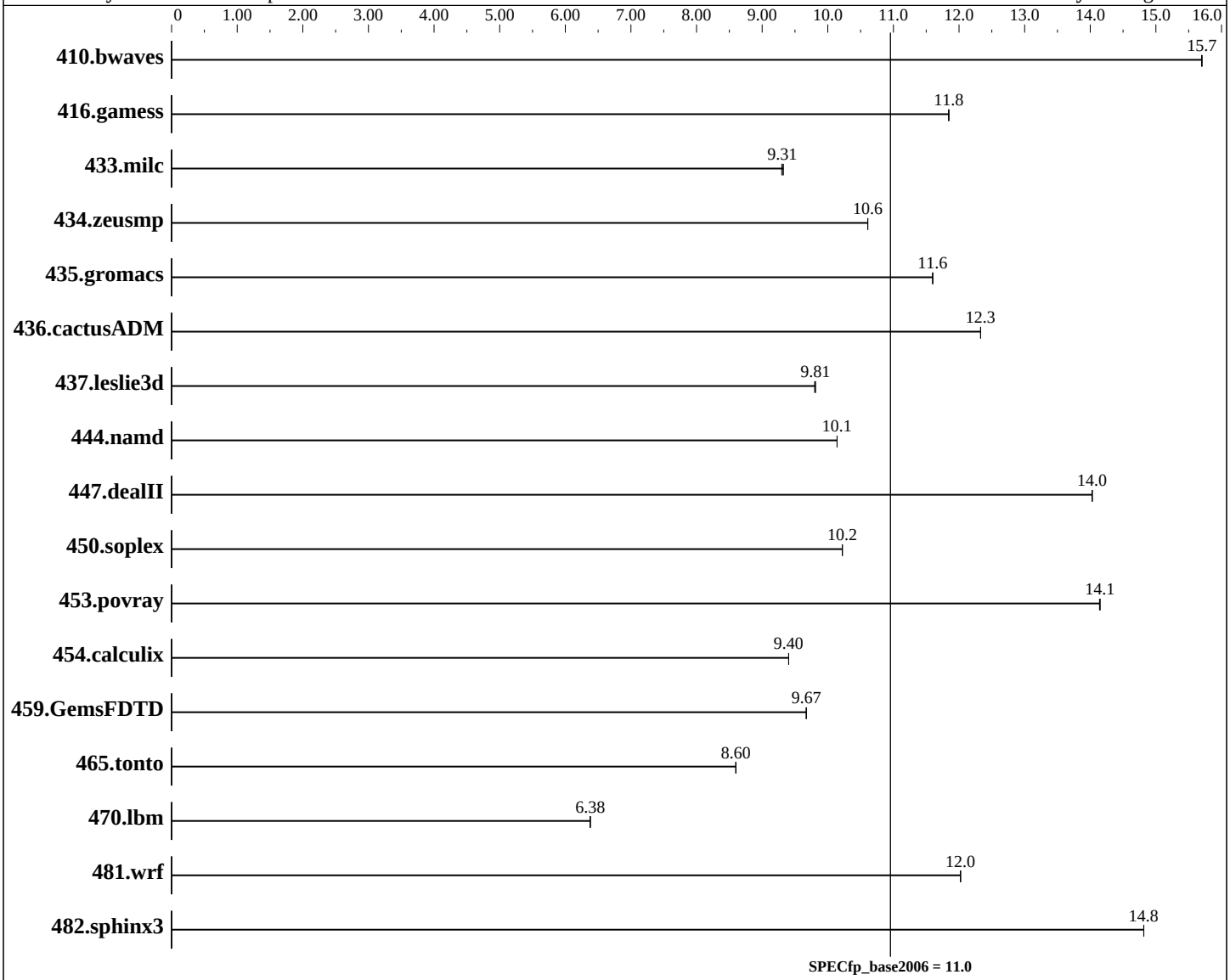
IBM System x3650 (Intel Xeon E5335)

SPECfp®2006 = Not Run

SPECfp_base2006 = 11.0

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 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 146 GB SAS, 15000 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	866	15.7	865	15.7	**865**	**15.7**						
416.gamess	1654	11.8	1653	11.8	**1653**	**11.8**						
433.milc	985	9.32	**986**	**9.31**	987	9.30						
434.zeusmp	858	10.6	**858**	**10.6**	858	10.6						
435.gromacs	616	11.6	**616**	**11.6**	616	11.6						
436.cactusADM	969	12.3	969	12.3	**969**	**12.3**						
437.leslie3d	958	9.81	959	9.80	**958**	**9.81**						
444.namd	791	10.1	791	10.1	**791**	**10.1**						
447.dealII	815	14.0	**815**	**14.0**	815	14.0						
450.soplex	816	10.2	816	10.2	**816**	**10.2**						
453.povray	**376**	**14.1**	376	14.1	376	14.1						
454.calculix	**877**	**9.40**	877	9.40	877	9.40						
459.GemsFDTD	1097	9.67	**1097**	**9.67**	1097	9.67						
465.tonto	1144	8.60	1144	8.60	**1144**	**8.60**						
470.lbm	**2153**	**6.38**	2153	6.38	2153	6.38						
481.wrf	929	12.0	**929**	**12.0**	929	12.0						
482.sphinx3	1315	14.8	**1316**	**14.8**	1316	14.8						

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
```

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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