SPEC® CFP2006 Result
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IBM Corporation

IBM System x3250 (Intel Xeon X3220)

$SPECfp^{®}2006 =$ Not Run
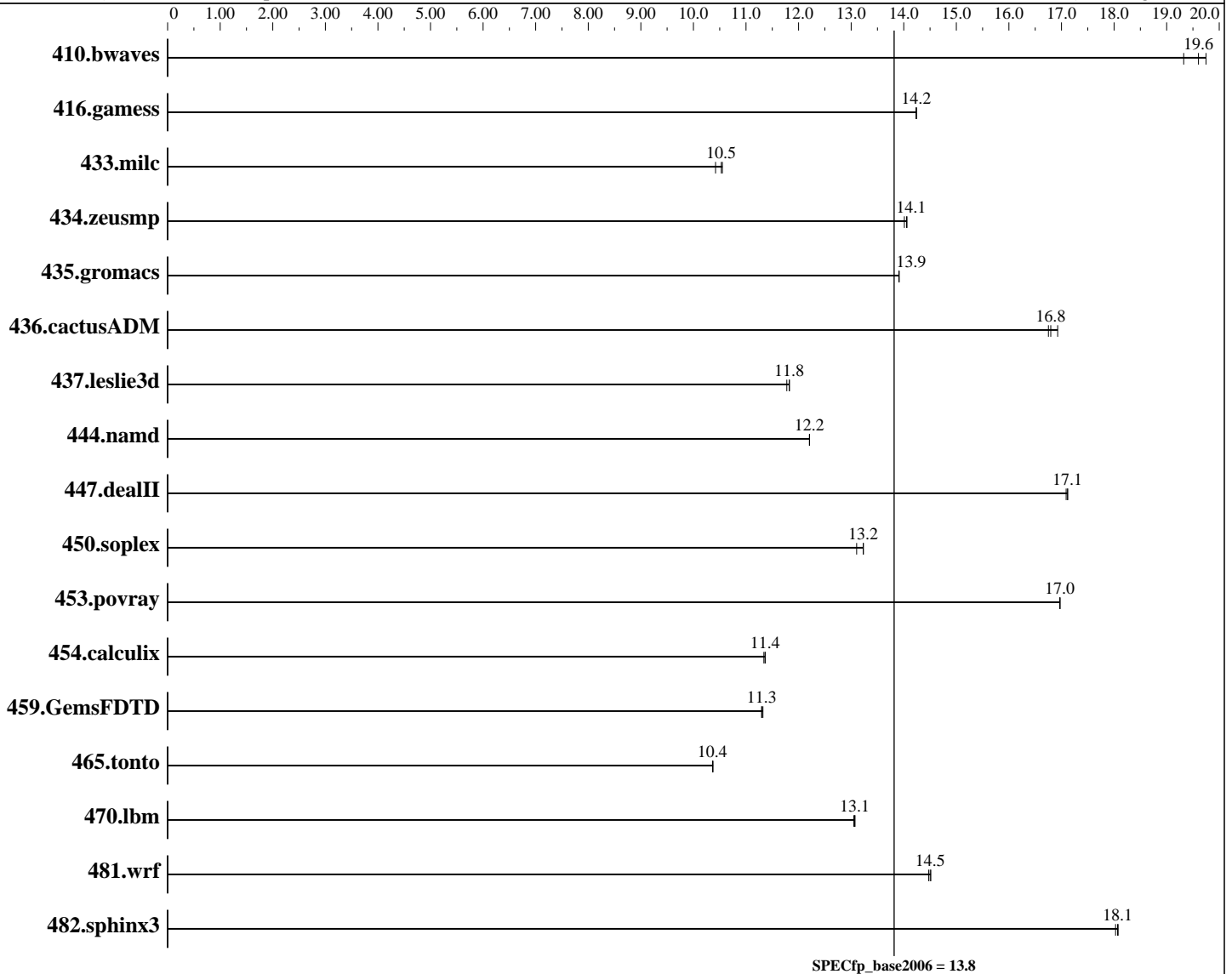
$SPECfp\_base2006 =$ 13.8

CPU2006 license: 11
Test sponsor: IBM Corporation
Tested by: IBM Corporation

Test date: Jan-2007
Hardware Availability: Feb-2007
Software Availability: Aug-2006

Benchmark	Score
410.bwaves	19.6
416.gamess	14.2
433.milc	10.5
434.zeusmp	14.1
435.gromacs	13.9
436.cactusADM	16.8
437.leslie3d	11.8
444.namd	12.2
447.dealII	17.1
450.soplex	13.2
453.povray	17.0
454.calculix	11.4
459.GemsFDTD	11.3
465.tonto	10.4
470.lbm	13.1
481.wrf	14.5
482.sphinx3	18.1

SPECfp_base2006 = 13.8

Hardware

CPU Name: Intel Xeon X3220
CPU Characteristics: 1066MHz system bus
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 4 cores, 1 chip, 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	System State:	Default
Other Cache:	None	Base Pointers:	32-bit
Memory:	8 GB (4 x 2GB PC2-5300 ECC)	Peak Pointers:	Not Applicable
Disk Subsystem:	1 x 73 GB SAS, 10000 RPM	Other Software:	Smart Heap Library, Version 8
Other Hardware:	None		

Results Table

Benchmark	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
410.bwaves	703	19.3	688	19.7	**693**	**19.6**						
416.gamess	**1375**	**14.2**	1375	14.2	1375	14.2						
433.milc	881	10.4	870	10.6	**872**	**10.5**						
434.zeusmp	649	14.0	**648**	**14.1**	647	14.1						
435.gromacs	513	13.9	**513**	**13.9**	513	13.9						
436.cactusADM	713	16.8	706	16.9	**711**	**16.8**						
437.leslie3d	798	11.8	**795**	**11.8**	795	11.8						
444.namd	657	12.2	**657**	**12.2**	657	12.2						
447.dealII	669	17.1	**668**	**17.1**	668	17.1						
450.soplex	636	13.1	630	13.2	**630**	**13.2**						
453.povray	314	17.0	**314**	**17.0**	313	17.0						
454.calculix	728	11.3	726	11.4	**726**	**11.4**						
459.GemsFDTD	939	11.3	937	11.3	**939**	**11.3**						
465.tonto	949	10.4	**949**	**10.4**	949	10.4						
470.lbm	1053	13.1	**1051**	**13.1**	1051	13.1						
481.wrf	772	14.5	770	14.5	**770**	**14.5**						
482.sphinx3	1081	18.0	1078	18.1	**1079**	**18.1**						

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.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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