SPEC® CFP2006 Result
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IBM Corporation

IBM BladeCenter HS21 (Intel Xeon X5355)

$SPECfp^{®}2006 =$ Not Run
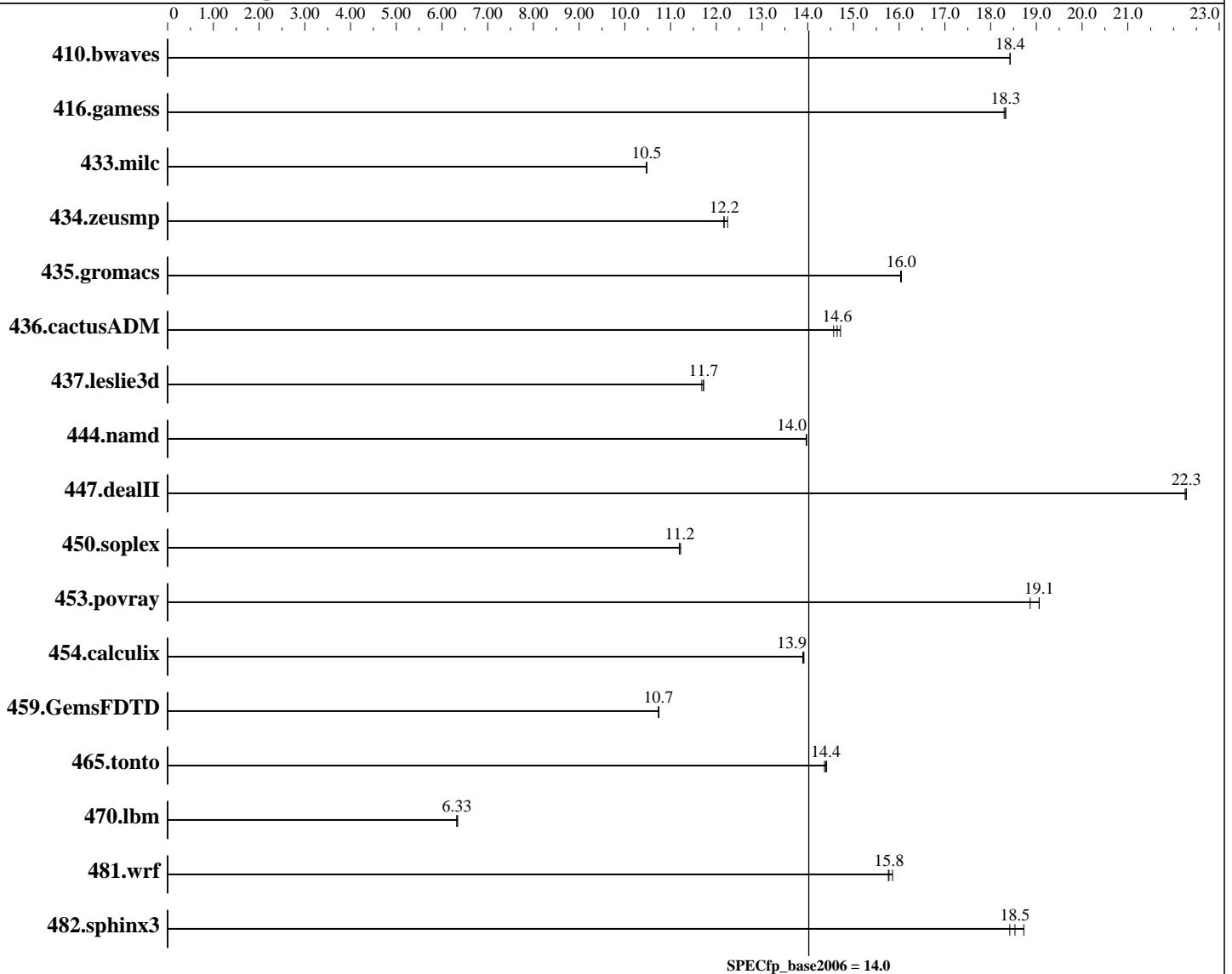
$SPECfp\_base2006 =$ 14.0

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

Test date: Apr-2007
Hardware Availability: Apr-2007
Software Availability: Nov-2006

Benchmark	Result
410.bwaves	18.4
416.gamess	18.3
433.milc	10.5
434.zeusmp	12.2
435.gromacs	16.0
436.cactusADM	14.6
437.leslie3d	11.7
444.namd	14.0
447.dealII	22.3
450.soplex	11.2
453.povray	19.1
454.calculix	13.9
459.GemsFDTD	10.7
465.tonto	14.4
470.lbm	6.33
481.wrf	15.8
482.sphinx3	18.5

SPECfp_base2006 = 14.0

Hardware

CPU Name: Intel Xeon X5355
CPU Characteristics: 1333MHz system bus
CPU MHz: 2667
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1,2 chips
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

Continued on next page

Software

Operating System: SuSE Linux Enterprise Server 10 EM64T kernel 2.6.16.21-0.8-smp
Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_cc_c_9.1.045 Build no 20061101
Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Package ID l_fc_c_9.1.040 Build no 20061101
Auto Parallel: No

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L3 Cache: None
Other Cache: None
Memory: 8 GB (8 x 1GB DDR2-5300F ECC)
Disk Subsystem: 1 x 74 GB SAS, 10000 RPM
Other Hardware: Memory and I/O Expansion Unit (P/N 42C1600)

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	737	18.4	**737**	**18.4**	738	18.4						
416.gamess	**1068**	**18.3**	1070	18.3	1068	18.3						
433.milc	**876**	**10.5**	877	10.5	876	10.5						
434.zeusmp	**748**	**12.2**	743	12.2	748	12.2						
435.gromacs	445	16.0	**445**	**16.0**	445	16.0						
436.cactusADM	820	14.6	812	14.7	**816**	**14.6**						
437.leslie3d	**802**	**11.7**	802	11.7	805	11.7						
444.namd	574	14.0	574	14.0	**574**	**14.0**						
447.dealII	513	22.3	**514**	**22.3**	514	22.3						
450.soplex	743	11.2	**745**	**11.2**	745	11.2						
453.povray	**279**	**19.1**	282	18.9	279	19.1						
454.calculix	593	13.9	**593**	**13.9**	594	13.9						
459.GemsFDTD	**988**	**10.7**	988	10.7	988	10.7						
465.tonto	683	14.4	**684**	**14.4**	685	14.4						
470.lbm	2166	6.34	2172	6.33	**2171**	**6.33**						
481.wrf	709	15.8	705	15.9	**708**	**15.8**						
482.sphinx3	**1052**	**18.5**	1041	18.7	1058	18.4						

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

Platform Notes

    "ulimit -s unlimited" set

Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

Fortran benchmarks:
    ifort

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
```
icc ifort
```

Base Portability Flags

```
   410.bwaves: -DSPEC_CPU_LP64
   416.gamess: -DSPEC_CPU_LP64
     433.milc: -DSPEC_CPU_LP64
   434.zeusmp: -DSPEC_CPU_LP64
  435.gromacs: -DSPEC_CPU_LP64 -nofor_main
 436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
  437.leslie3d: -DSPEC_CPU_LP64
     444.namd: -DSPEC_CPU_LP64
    447.dealII: -DSPEC_CPU_LP64
    450.soplex: -DSPEC_CPU_LP64
    453.povray: -DSPEC_CPU_LP64
  454.calculix: -DSPEC_CPU_LP64 -nofor_main
  459.GemsFDTD: -DSPEC_CPU_LP64
     465.tonto: -DSPEC_CPU_LP64
      470.lbm: -DSPEC_CPU_LP64
      481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
   482.sphinx3: -DSPEC_CPU_LP64
```

Base Optimization Flags

C benchmarks:
```
-fast
```

C++ benchmarks:
```
-fast
```

Fortran benchmarks:
```
-fast
```

Benchmarks using both Fortran and C:
```
-fast
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/ibm-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/ibm-ic91-flags.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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