SPEC® CFP2006 Result

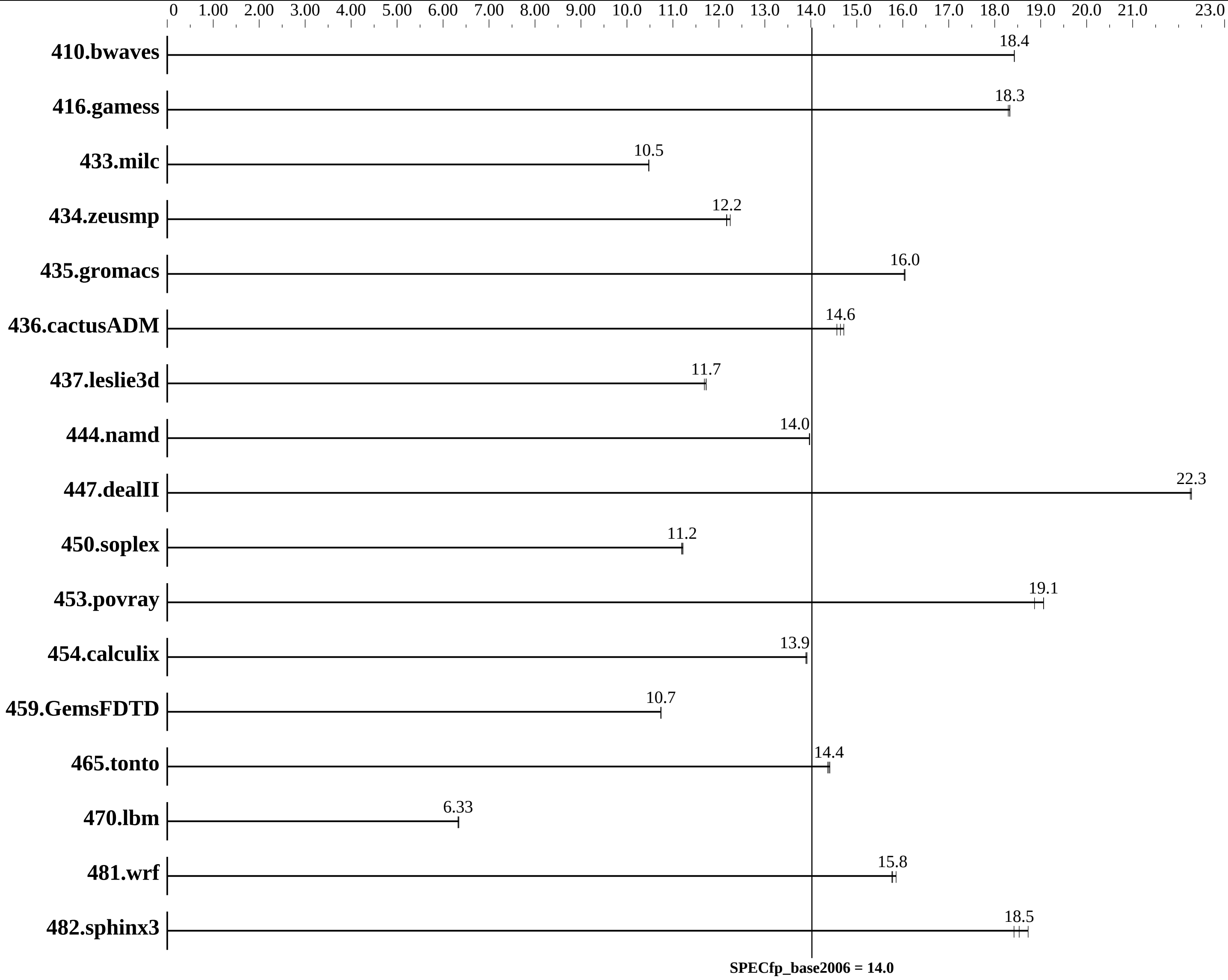
IBM Corporation

SPECfp®2006 = Not Run

IBM BladeCenter HS21 (Intel Xeon X5355)

SPECfp_base2006 = 14.0

CPU2006 license:	11	**Test date:**	Apr-2007
Test sponsor:	IBM Corporation	**Hardware Availability:**	Apr-2007
Tested by:	IBM Corporation	**Software Availability:**	Nov-2006



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

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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`

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

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