SPEC® CFP2006 Result

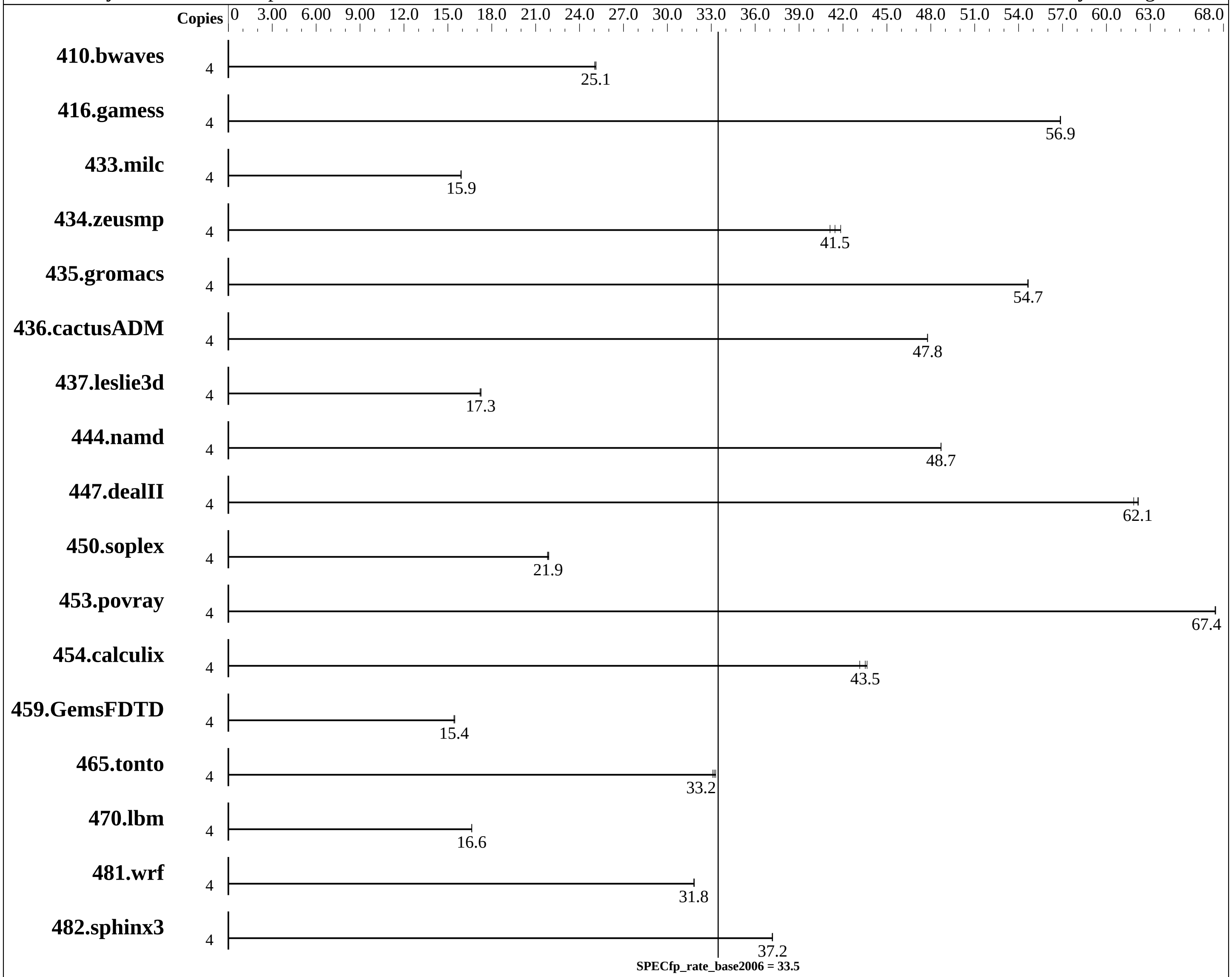
IBM Corporation

SPECfp®_rate2006 = Not Run

IBM System x3200 (Intel Xeon X3220)

SPECfp_rate_base2006 = 33.5

CPU2006 license:	11	**Test date:**	Jan-2007
Test sponsor:	IBM Corporation	**Hardware Availability:**	Feb-2007
Tested by:	IBM Corporation	**Software Availability:**	Aug-2006



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
Other Cache: None
Memory: 8 GB (4 x 2GB PC2-5300 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**2165**	**25.1**	2172	25.0	2164	25.1							
416.gamess	4	1377	56.9	1378	56.8	**1377**	**56.9**							
433.milc	4	2312	15.9	**2307**	**15.9**	2306	15.9							
434.zeusmp	4	**878**	**41.5**	885	41.1	870	41.8							
435.gromacs	4	**523**	**54.7**	523	54.7	523	54.6							
436.cactusADM	4	1001	47.8	1000	47.8	**1000**	**47.8**							
437.leslie3d	4	2186	17.2	**2179**	**17.3**	2177	17.3							
444.namd	4	659	48.7	**659**	**48.7**	659	48.7							
447.dealII	4	736	62.2	740	61.9	**736**	**62.1**							
450.soplex	4	1530	21.8	**1527**	**21.9**	1523	21.9							
453.povray	4	**316**	**67.4**	315	67.5	316	67.4							
454.calculix	4	765	43.1	**758**	**43.5**	756	43.6							
459.GemsFDTD	4	2742	15.5	**2751**	**15.4**	2752	15.4							
465.tonto	4	**1185**	**33.2**	1189	33.1	1182	33.3							
470.lbm	4	**3304**	**16.6**	3305	16.6	3304	16.6							
481.wrf	4	1405	31.8	**1405**	**31.8**	1403	31.8							
482.sphinx3	4	**2096**	**37.2**	2096	37.2	2098	37.2							

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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CPU2006 license: 11
Test sponsor: IBM Corporation
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Test date: Jan-2007
Hardware Availability: Feb-2007
Software Availability: Aug-2006

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

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

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