SPEC® CFP2006 Result

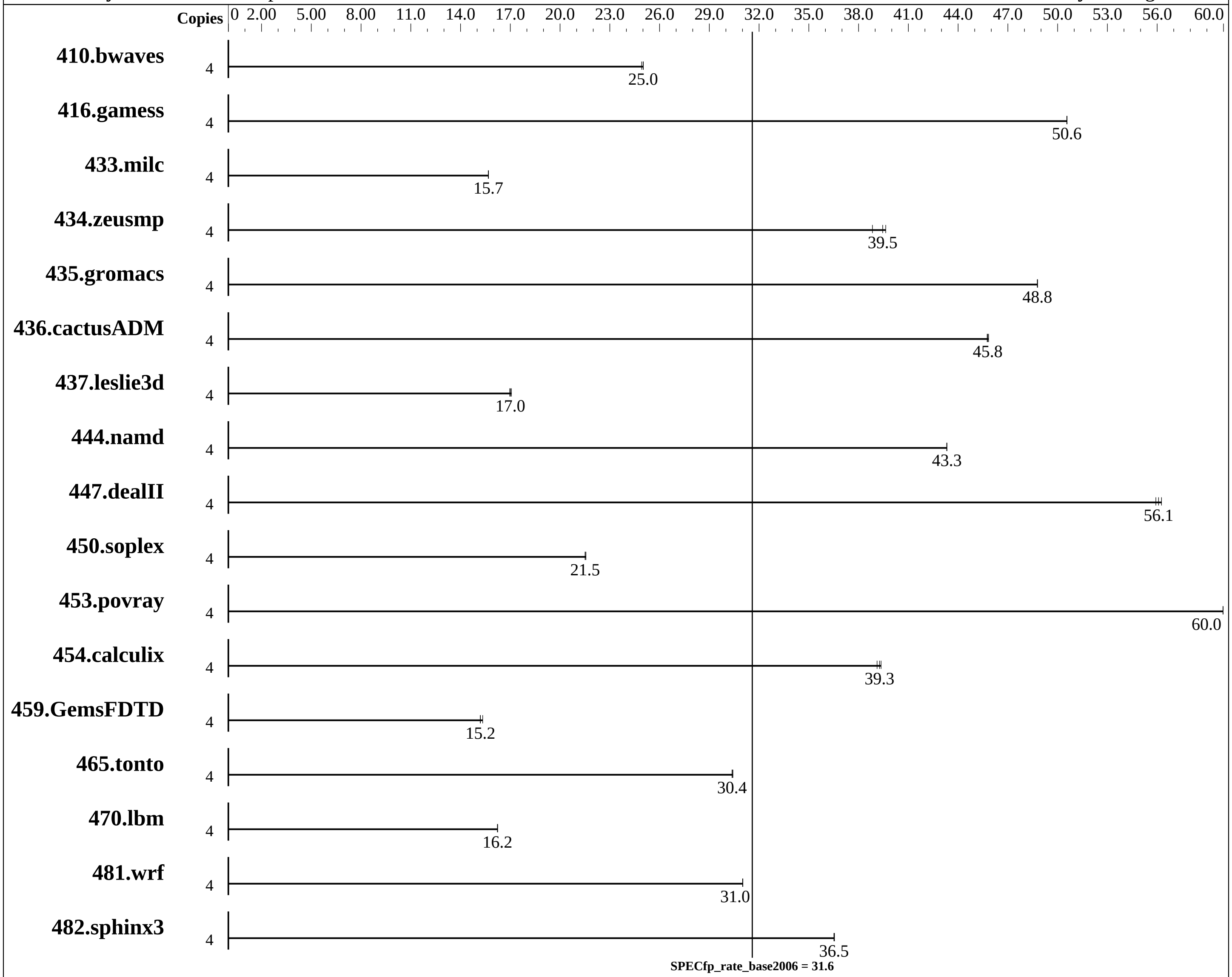
IBM Corporation

IBM System x3200 (Intel Xeon X3210)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 31.6

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 X3210
CPU Characteristics:	1066MHz system bus
CPU MHz:	2133
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	2173	25.0	2181	24.9	**<u>2174</u>**	**<u>25.0</u>**							
416.gamess	4	1549	50.6	**<u>1549</u>**	**<u>50.6</u>**	1549	50.6							
433.milc	4	2343	15.7	**<u>2341</u>**	**<u>15.7</u>**	2341	15.7							
434.zeusmp	4	**<u>923</u>**	**<u>39.5</u>**	918	39.6	937	38.8							
435.gromacs	4	585	48.8	586	48.8	**<u>586</u>**	**<u>48.8</u>**							
436.cactusADM	4	1043	45.8	**<u>1044</u>**	**<u>45.8</u>**	1045	45.8							
437.leslie3d	4	2216	17.0	2203	17.1	**<u>2210</u>**	**<u>17.0</u>**							
444.namd	4	741	43.3	740	43.3	**<u>741</u>**	**<u>43.3</u>**							
447.dealII	4	818	55.9	**<u>816</u>**	**<u>56.1</u>**	813	56.3							
450.soplex	4	**<u>1551</u>**	**<u>21.5</u>**	1551	21.5	1547	21.6							
453.povray	4	355	60.0	355	60.0	**<u>355</u>**	**<u>60.0</u>**							
454.calculix	4	839	39.4	**<u>840</u>**	**<u>39.3</u>**	844	39.1							
459.GemsFDTD	4	2767	15.3	2794	15.2	**<u>2792</u>**	**<u>15.2</u>**							
465.tonto	4	1296	30.4	1294	30.4	**<u>1296</u>**	**<u>30.4</u>**							
470.lbm	4	3384	16.2	**<u>3387</u>**	**<u>16.2</u>**	3388	16.2							
481.wrf	4	1440	31.0	1441	31.0	**<u>1441</u>**	**<u>31.0</u>**							
482.sphinx3	4	**<u>2135</u>**	**<u>36.5</u>**	2135	36.5	2133	36.5							

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

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

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