SPEC® CFP2006 Result

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IBM Corporation

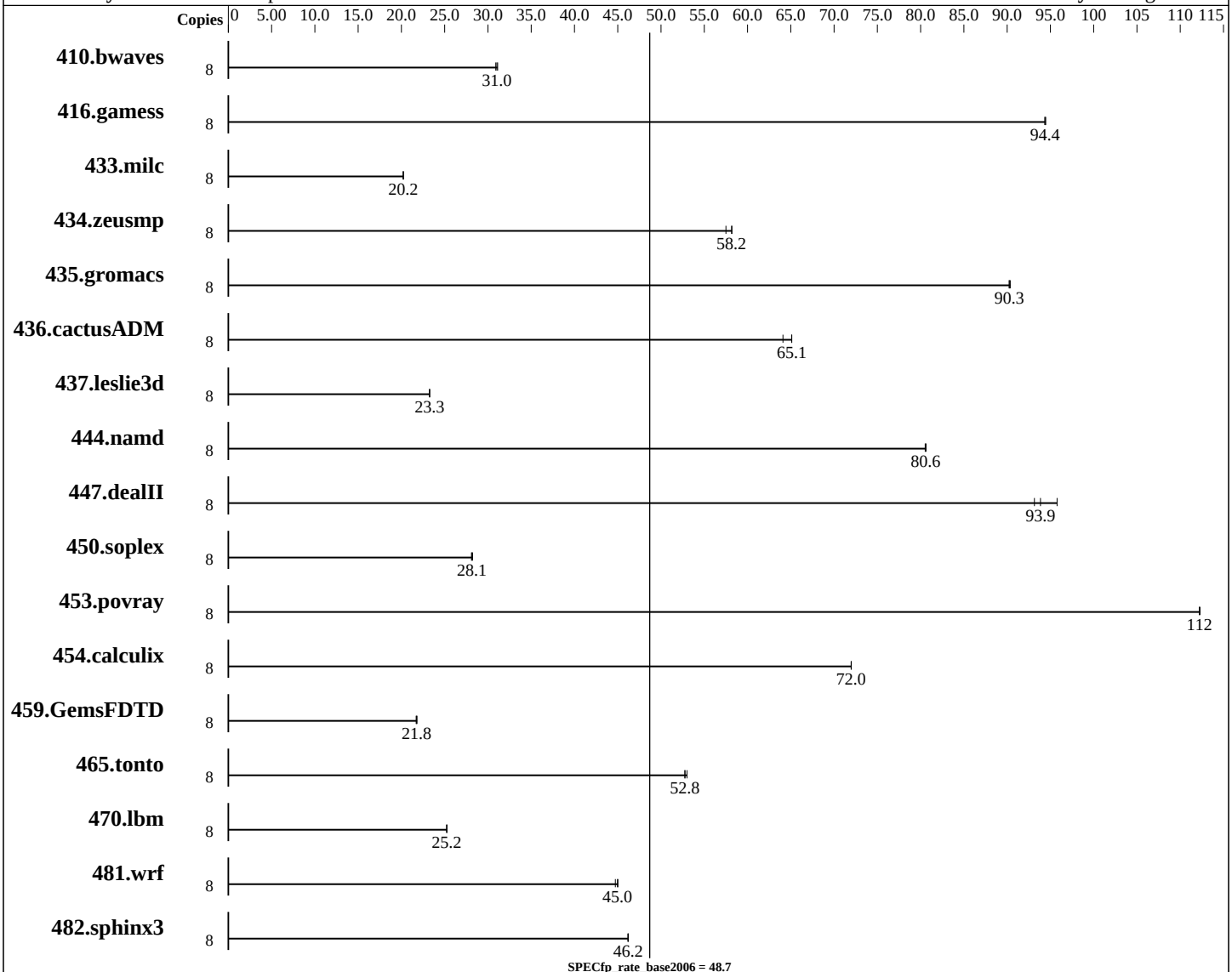
IBM System x3650 (Intel Xeon E5335)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 48.7

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

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



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	1066MHz system bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 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 (8 x 1GB DDR2-5300F ECC)
Disk Subsystem: 1 x 146 GB SAS, 15000 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	8	3518	30.9	3494	31.1	**3504**	**31.0**							
416.gamess	8	1660	94.4	**1660**	**94.4**	1658	94.5							
433.milc	8	3634	20.2	**3633**	**20.2**	3632	20.2							
434.zeusmp	8	**1252**	**58.2**	1266	57.5	1251	58.2							
435.gromacs	8	633	90.2	632	90.4	**633**	**90.3**							
436.cactusADM	8	1468	65.1	**1468**	**65.1**	1492	64.1							
437.leslie3d	8	**3233**	**23.3**	3235	23.2	3233	23.3							
444.namd	8	**796**	**80.6**	796	80.6	797	80.5							
447.dealII	8	**975**	**93.9**	956	95.8	983	93.2							
450.soplex	8	2364	28.2	2375	28.1	**2370**	**28.1**							
453.povray	8	**379**	**112**	379	112	379	112							
454.calculix	8	917	72.0	**917**	**72.0**	917	72.0							
459.GemsFDTD	8	3893	21.8	3911	21.7	**3902**	**21.8**							
465.tonto	8	**1492**	**52.8**	1492	52.8	1485	53.0							
470.lbm	8	4354	25.2	4355	25.2	**4355**	**25.2**							
481.wrf	8	1998	44.7	**1987**	**45.0**	1985	45.0							
482.sphinx3	8	3377	46.2	3374	46.2	**3375**	**46.2**							

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
```

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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