SPEC® CFP2006 Result

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IBM Corporation

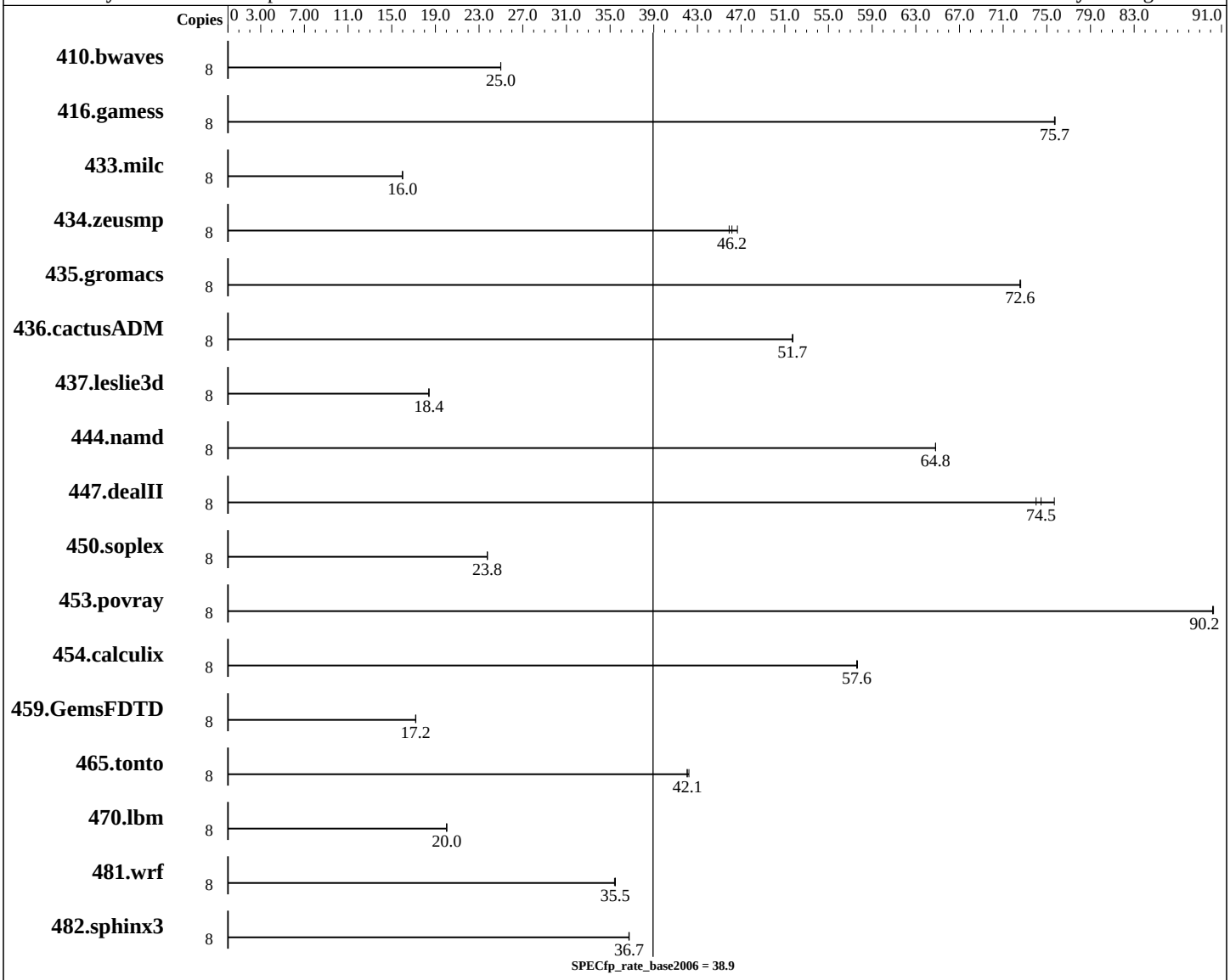
IBM BladeCenter HS21 XM (Intel Xeon E5310)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 38.9

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 E5310
CPU Characteristics:	1066MHz system bus
CPU MHz:	1600
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:	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:	16 GB (8 x 2GB DDR2-5300F ECC)
Disk Subsystem:	1 x 74 GB SAS, 1000 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	4352	25.0	**4351**	**25.0**	4351	25.0							
416.gamess	8	**2068**	**75.7**	2069	75.7	2068	75.8							
433.milc	8	4592	16.0	4596	16.0	**4594**	**16.0**							
434.zeusmp	8	1560	46.7	1586	45.9	**1577**	**46.2**							
435.gromacs	8	787	72.6	**787**	**72.6**	787	72.6							
436.cactusADM	8	**1849**	**51.7**	1849	51.7	1848	51.7							
437.leslie3d	8	**4086**	**18.4**	4086	18.4	4085	18.4							
444.namd	8	**990**	**64.8**	990	64.8	990	64.8							
447.dealII	8	1209	75.7	1236	74.0	**1229**	**74.5**							
450.soplex	8	**2809**	**23.8**	2809	23.7	2808	23.8							
453.povray	8	471	90.3	**472**	**90.2**	472	90.2							
454.calculix	8	**1146**	**57.6**	1146	57.6	1145	57.7							
459.GemsFDTD	8	4939	17.2	4932	17.2	**4937**	**17.2**							
465.tonto	8	1865	42.2	1872	42.1	**1871**	**42.1**							
470.lbm	8	**5487**	**20.0**	5488	20.0	5487	20.0							
481.wrf	8	2524	35.4	2518	35.5	**2518**	**35.5**							
482.sphinx3	8	**4244**	**36.7**	4246	36.7	4243	36.7							

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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