SPEC® CFP2006 Result

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Bull SAS

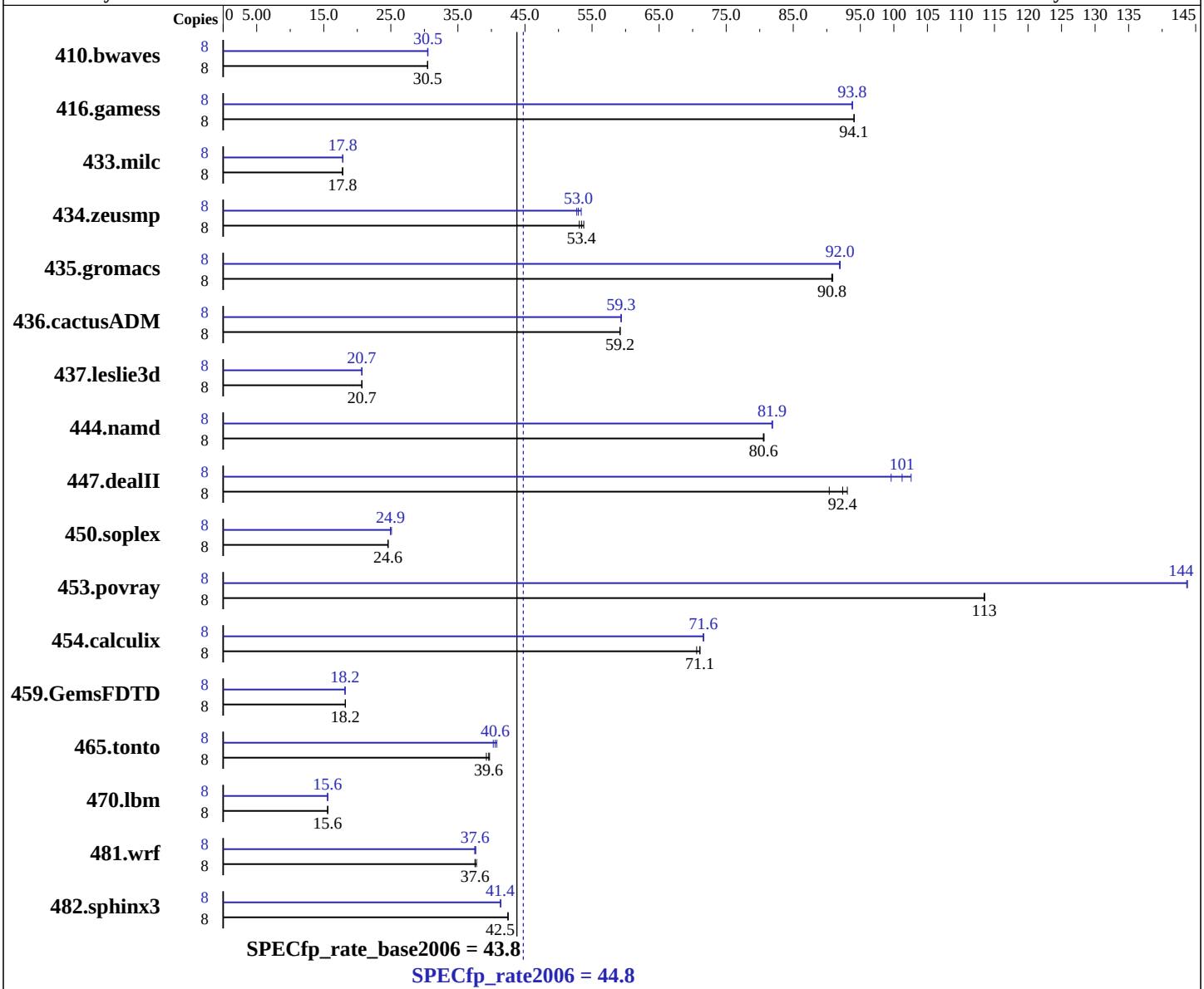
NovaScale B260 (Intel Xeon processor E5335,2.00GHz)

SPECfp®_rate2006 = 44.8

SPECfp_rate_base2006 = 43.8

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

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



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 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:	Windows Server 2003 Enterprise Edition (32 bits) Service Pack1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.033 Build no 20061103Z Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.033 Build no 20061103Z Microsoft Visual Studio .NET 2003 (lib & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 8 GB (2GB DIMMx4, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3568	30.5	3565	30.5	**3565**	**30.5**	8	3560	30.5	3567	30.5	**3563**	**30.5**
416.gamess	8	**1665**	**94.1**	1665	94.1	1665	94.1	8	**1670**	**93.8**	1670	93.8	1669	93.8
433.milc	8	4122	17.8	**4123**	**17.8**	4125	17.8	8	4116	17.8	4119	17.8	**4117**	**17.8**
434.zeusmp	8	**1363**	**53.4**	1371	53.1	1354	53.8	8	1364	53.4	**1375**	**53.0**	1381	52.7
435.gromacs	8	**629**	**90.8**	628	90.9	630	90.7	8	621	92.0	**621**	**92.0**	622	91.9
436.cactusADM	8	1616	59.2	**1615**	**59.2**	1615	59.2	8	1611	59.3	**1611**	**59.3**	1611	59.4
437.leslie3d	8	**3637**	**20.7**	3639	20.7	3631	20.7	8	**3638**	**20.7**	3639	20.7	3633	20.7
444.namd	8	**796**	**80.6**	796	80.7	797	80.5	8	**784**	**81.9**	783	81.9	784	81.8
447.dealII	8	1013	90.4	983	93.1	**991**	**92.4**	8	892	103	919	99.6	**904**	**101**
450.soplex	8	2710	24.6	2718	24.6	**2715**	**24.6**	8	**2675**	**24.9**	2676	24.9	2658	25.1
453.povray	8	**375**	**113**	375	114	375	113	8	**296**	**144**	296	144	296	144
454.calculix	8	**929**	**71.1**	928	71.1	935	70.6	8	**922**	**71.6**	921	71.6	922	71.6
459.GemsFDTD	8	4664	18.2	4653	18.2	**4658**	**18.2**	8	4671	18.2	**4669**	**18.2**	4668	18.2
465.tonto	8	1982	39.7	2006	39.2	**1988**	**39.6**	8	1929	40.8	**1941**	**40.6**	1955	40.3
470.lbm	8	7049	15.6	**7050**	**15.6**	7056	15.6	8	**7057**	**15.6**	7056	15.6	7060	15.6
481.wrf	8	2379	37.6	**2379**	**37.6**	2365	37.8	8	2372	37.7	2382	37.5	**2379**	**37.6**
482.sphinx3	8	3672	42.5	3670	42.5	**3671**	**42.5**	8	**3770**	**41.4**	3767	41.4	3770	41.4

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

Peak 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

Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T

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Peak Portability Flags (Continued)

453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -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/flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/flags.20090714.00.xml

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For other inquiries, please contact webmaster@spec.org.

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