SPEC® CFP2006 Result

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Bull SAS

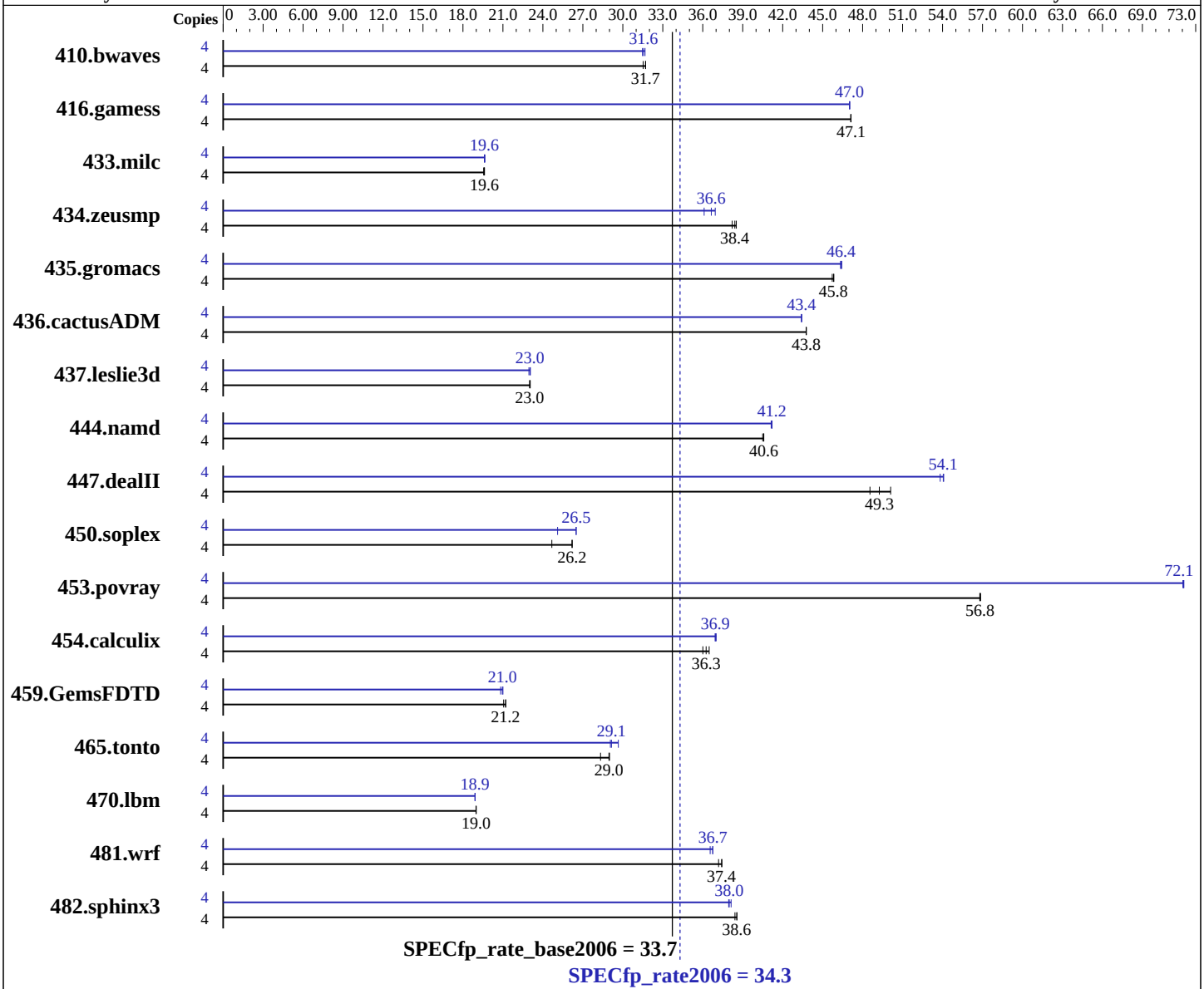
NovaScale B280 (Intel Xeon processor 5130,2.0GHz)

SPECfp®_rate2006 = 34.3

SPECfp_rate_base2006 = 33.7

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

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



Hardware

CPU Name:	Intel Xeon 5130
CPU Characteristics:	2.0 GHz, 4MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip

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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 (1GB DIMMx8, 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	4	**1715**	**31.7**	1714	31.7	1724	31.5	4	1717	31.7	**1723**	**31.6**	1727	31.5
416.gamess	4	1663	47.1	1662	47.1	**1662**	**47.1**	4	1665	47.0	1666	47.0	**1665**	**47.0**
433.milc	4	1878	19.6	1872	19.6	**1873**	**19.6**	4	1869	19.6	**1871**	**19.6**	1873	19.6
434.zeusmp	4	953	38.2	**948**	**38.4**	945	38.5	4	1008	36.1	**993**	**36.6**	985	36.9
435.gromacs	4	625	45.7	623	45.8	**623**	**45.8**	4	616	46.3	**616**	**46.4**	615	46.4
436.cactusADM	4	**1092**	**43.8**	1092	43.8	1092	43.8	4	**1101**	**43.4**	1101	43.4	1101	43.4
437.leslie3d	4	1631	23.1	1634	23.0	**1634**	**23.0**	4	1638	22.9	1630	23.1	**1632**	**23.0**
444.namd	4	792	40.5	790	40.6	**791**	**40.6**	4	780	41.1	779	41.2	**779**	**41.2**
447.dealII	4	**929**	**49.3**	913	50.1	943	48.6	4	**847**	**54.1**	846	54.1	850	53.8
450.soplex	4	1352	24.7	**1274**	**26.2**	1273	26.2	4	1329	25.1	1259	26.5	**1259**	**26.5**
453.povray	4	375	56.8	374	56.9	**375**	**56.8**	4	295	72.0	295	72.1	**295**	**72.1**
454.calculix	4	**910**	**36.3**	916	36.0	905	36.5	4	892	37.0	**893**	**36.9**	894	36.9
459.GemsFDTD	4	2016	21.1	2001	21.2	**2002**	**21.2**	4	2038	20.8	2021	21.0	**2025**	**21.0**
465.tonto	4	1357	29.0	1389	28.3	**1359**	**29.0**	4	1327	29.7	1354	29.1	**1350**	**29.1**
470.lbm	4	2896	19.0	**2894**	**19.0**	2894	19.0	4	**2906**	**18.9**	2906	18.9	2907	18.9
481.wrf	4	1201	37.2	**1194**	**37.4**	1193	37.4	4	1222	36.6	1216	36.8	**1216**	**36.7**
482.sphinx3	4	2029	38.4	**2022**	**38.6**	2022	38.6	4	2055	37.9	**2052**	**38.0**	2045	38.1

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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