



SPEC® CFP2006 Result

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Bull SAS

SPECfp®_rate2006 = 26.8

NovaScale B260 (Intel Xeon processor 5110,1.60GHz)

SPECfp_rate_base2006 = 26.3

CPU2006 license: 20

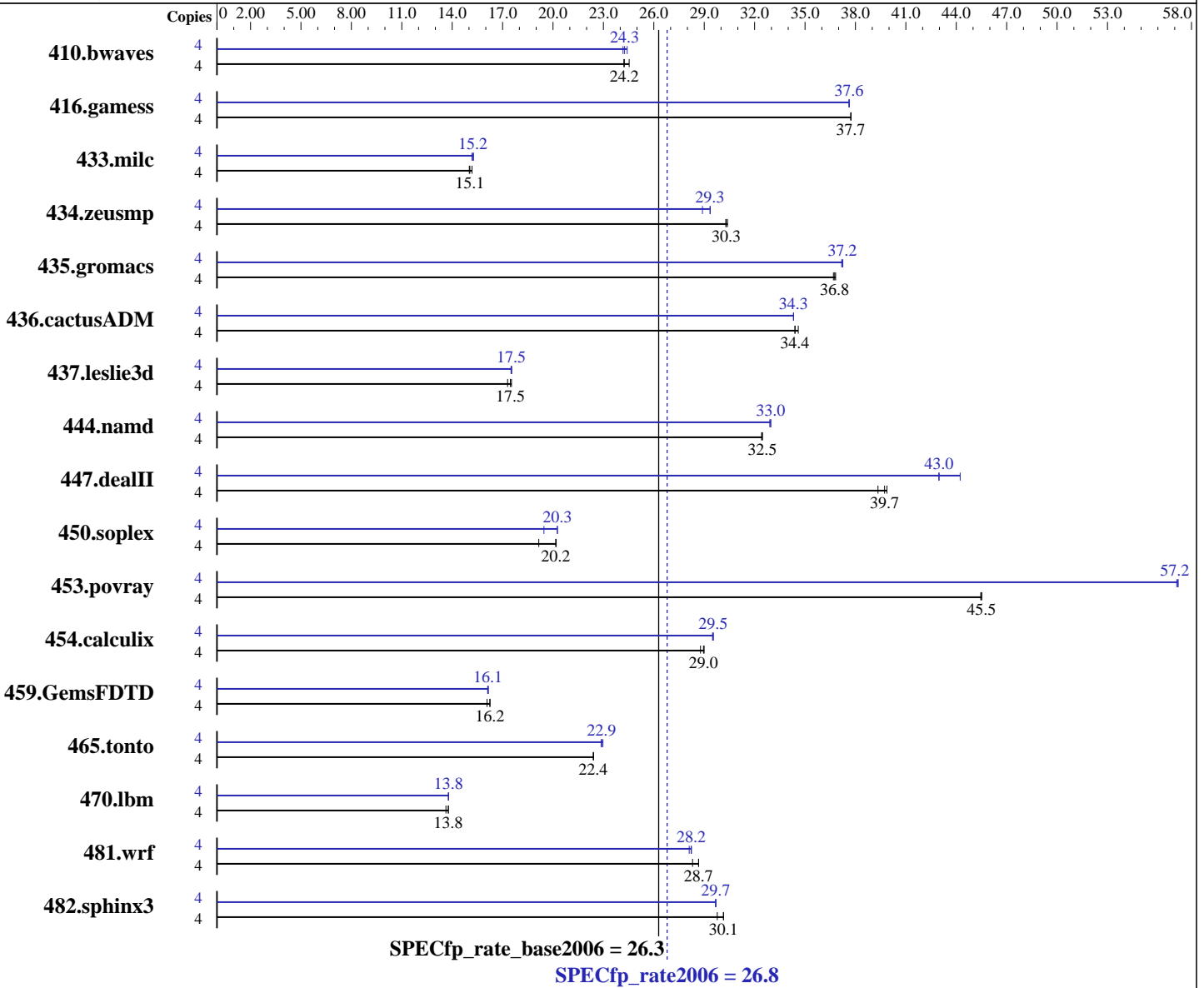
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Dec-2006

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5110
 CPU Characteristics: 1.60 GHz, 4MB L2, 1066MHz bus
 CPU MHz: 1600
 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

Continued on next page

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)
 MicroQuill SmartHeap Library 8.0 (shIW32M.lib)
 Auto Parallel: No
 File System: NTFS

Continued on next page



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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

System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<u>2242</u>	<u>24.2</u>	2245	24.2	2216	24.5	4	2226	24.4	2249	24.2	<u>2241</u>	<u>24.3</u>
416.gamess	4	2076	37.7	<u>2076</u>	<u>37.7</u>	2075	37.7	4	2081	37.6	2082	37.6	<u>2082</u>	<u>37.6</u>
433.milc	4	<u>2439</u>	<u>15.1</u>	2445	15.0	2419	15.2	4	<u>2409</u>	<u>15.2</u>	2420	15.2	2405	15.3
434.zeusmp	4	1202	30.3	<u>1201</u>	<u>30.3</u>	1198	30.4	4	1260	28.9	1240	29.4	<u>1241</u>	<u>29.3</u>
435.gromacs	4	778	36.7	<u>777</u>	<u>36.8</u>	776	36.8	4	768	37.2	<u>767</u>	<u>37.2</u>	767	37.3
436.cactusADM	4	1389	34.4	<u>1389</u>	<u>34.4</u>	1382	34.6	4	1393	34.3	<u>1393</u>	<u>34.3</u>	1393	34.3
437.leslie3d	4	2174	17.3	<u>2153</u>	<u>17.5</u>	2145	17.5	4	<u>2147</u>	<u>17.5</u>	2148	17.5	2143	17.5
444.namd	4	990	32.4	<u>988</u>	<u>32.5</u>	988	32.5	4	975	32.9	<u>973</u>	<u>33.0</u>	973	33.0
447.dealII	4	1148	39.9	1163	39.3	<u>1152</u>	<u>39.7</u>	4	1035	44.2	<u>1065</u>	<u>43.0</u>	1065	43.0
450.soplex	4	1742	19.2	<u>1655</u>	<u>20.2</u>	1652	20.2	4	1714	19.5	1646	20.3	<u>1647</u>	<u>20.3</u>
453.povray	4	468	45.5	468	45.5	<u>468</u>	<u>45.5</u>	4	373	57.1	372	57.2	<u>372</u>	<u>57.2</u>
454.calculix	4	1138	29.0	<u>1140</u>	<u>29.0</u>	1147	28.8	4	1119	29.5	<u>1118</u>	<u>29.5</u>	1117	29.5
459.GemsFDTD	4	2640	16.1	2612	16.2	<u>2612</u>	<u>16.2</u>	4	<u>2630</u>	<u>16.1</u>	2635	16.1	2628	16.2
465.tonto	4	<u>1757</u>	<u>22.4</u>	1757	22.4	1756	22.4	4	1713	23.0	1721	22.9	<u>1719</u>	<u>22.9</u>
470.lbm	4	4033	13.6	3991	13.8	<u>3991</u>	<u>13.8</u>	4	<u>3989</u>	<u>13.8</u>	3988	13.8	3989	13.8
481.wrf	4	1578	28.3	1559	28.7	<u>1559</u>	<u>28.7</u>	4	1590	28.1	<u>1583</u>	<u>28.2</u>	1582	28.2
482.sphinx3	4	2618	29.8	2586	30.2	<u>2587</u>	<u>30.1</u>	4	2625	29.7	<u>2626</u>	<u>29.7</u>	2627	29.7

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



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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.20090715.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/flags.20090715.xml>

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

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