



SPEC® CFP2006 Result

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Bull SAS

NovaScale B260 (Intel Xeon processor E5320,1.86GHz)

SPECfp®_rate2006 = 40.1

SPECfp_rate_base2006 = 39.4

CPU2006 license: 20

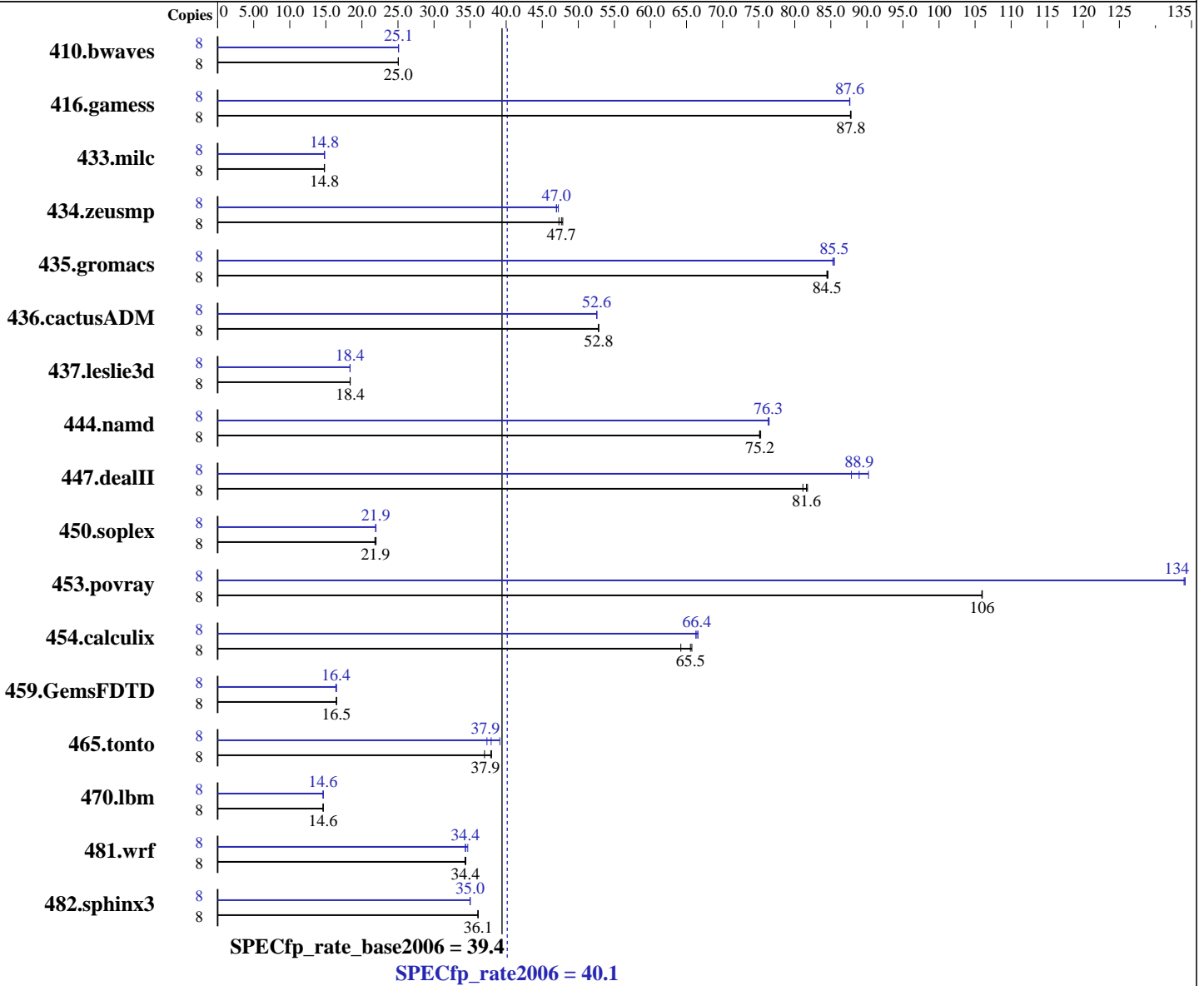
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2006

Hardware Availability: Jan-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 8MB L2, 1066MHz bus
 CPU MHz: 1860
 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 (shIW32M.lib)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	4340	25.0	4341	25.0	4341	25.0	8	4338	25.1	4338	25.1	4333	25.1
416.gamess	8	1786	87.7	1784	87.8	1784	87.8	8	1788	87.6	1788	87.6	1787	87.6
433.milc	8	4965	14.8	4954	14.8	4968	14.8	8	4956	14.8	4954	14.8	4966	14.8
434.zeusmp	8	1539	47.3	1527	47.7	1522	47.8	8	1541	47.2	1550	47.0	1550	47.0
435.gromacs	8	675	84.6	676	84.5	676	84.5	8	670	85.3	668	85.5	668	85.5
436.cactusADM	8	1810	52.8	1810	52.8	1811	52.8	8	1819	52.6	1819	52.6	1819	52.5
437.leslie3d	8	4096	18.4	4091	18.4	4094	18.4	8	4093	18.4	4096	18.4	4100	18.3
444.namd	8	852	75.3	854	75.1	854	75.2	8	841	76.3	840	76.3	839	76.4
447.dealII	8	1119	81.8	1128	81.1	1121	81.6	8	1014	90.2	1029	88.9	1042	87.9
450.soplex	8	3061	21.8	3038	22.0	3048	21.9	8	3044	21.9	3039	22.0	3046	21.9
453.povray	8	402	106	402	106	402	106	8	317	134	317	134	318	134
454.calculix	8	1028	64.2	1004	65.7	1007	65.5	8	996	66.3	994	66.4	991	66.6
459.GemsFDTD	8	5154	16.5	5156	16.5	5149	16.5	8	5179	16.4	5148	16.5	5172	16.4
465.tonto	8	2128	37.0	2079	37.9	2073	38.0	8	2109	37.3	2076	37.9	2012	39.1
470.lbm	8	7509	14.6	7517	14.6	7517	14.6	8	7507	14.6	7514	14.6	7516	14.6
481.wrf	8	2597	34.4	2606	34.3	2601	34.4	8	2602	34.3	2577	34.7	2600	34.4
482.sphinx3	8	4317	36.1	4323	36.1	4318	36.1	8	4456	35.0	4457	35.0	4451	35.0

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 other inquiries, please contact webmaster@spec.org.

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