SPEC® CFP2006 Result

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Bull SAS

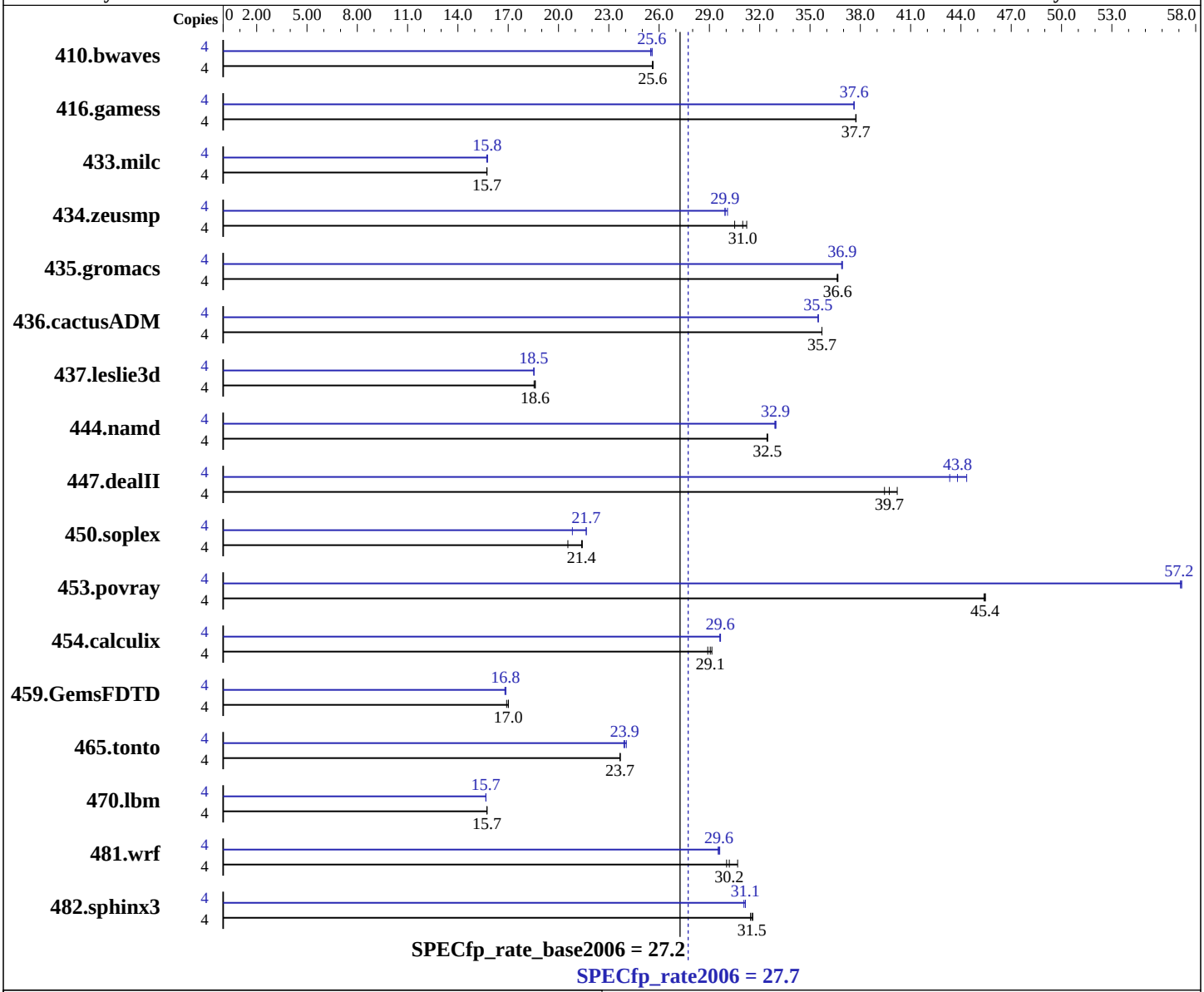
NovaScale B280 (Intel Xeon processor 5110,1.60GHz)

SPECfp®_rate2006 = 27.7

SPECfp_rate_base2006 = 27.2

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 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

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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	2120	25.6	**2122**	**25.6**	2124	25.6	4	2125	25.6	2132	25.5	**2126**	**25.6**
416.gamess	4	**2076**	**37.7**	2075	37.8	2076	37.7	4	2082	37.6	2081	37.6	**2081**	**37.6**
433.milc	4	**2335**	**15.7**	2335	15.7	2333	15.7	4	2336	15.7	2329	15.8	**2330**	**15.8**
434.zeusmp	4	1166	31.2	1193	30.5	**1175**	**31.0**	4	**1216**	**29.9**	1216	29.9	1210	30.1
435.gromacs	4	780	36.6	**779**	**36.6**	779	36.7	4	774	36.9	**774**	**36.9**	773	36.9
436.cactusADM	4	1339	35.7	1339	35.7	**1339**	**35.7**	4	1347	35.5	**1347**	**35.5**	1347	35.5
437.leslie3d	4	2028	18.5	2019	18.6	**2021**	**18.6**	4	2029	18.5	**2029**	**18.5**	2028	18.5
444.namd	4	989	32.4	988	32.5	**988**	**32.5**	4	975	32.9	**974**	**32.9**	973	33.0
447.dealII	4	**1152**	**39.7**	1160	39.4	1138	40.2	4	**1045**	**43.8**	1056	43.3	1032	44.3
450.soplex	4	1623	20.6	1557	21.4	**1561**	**21.4**	4	1602	20.8	1541	21.7	**1541**	**21.7**
453.povray	4	469	45.4	**468**	**45.4**	468	45.5	4	373	57.1	372	57.2	**372**	**57.2**
454.calculix	4	1142	28.9	**1136**	**29.1**	1132	29.1	4	1114	29.6	**1113**	**29.6**	1112	29.7
459.GemsFDTD	4	2510	16.9	2495	17.0	**2495**	**17.0**	4	2526	16.8	2517	16.9	**2520**	**16.8**
465.tonto	4	**1663**	**23.7**	1662	23.7	1663	23.7	4	**1644**	**23.9**	1647	23.9	1637	24.0
470.lbm	4	3494	15.7	3493	15.7	**3493**	**15.7**	4	3507	15.7	**3507**	**15.7**	3507	15.7
481.wrf	4	1488	30.0	**1480**	**30.2**	1456	30.7	4	1513	29.5	**1511**	**29.6**	1509	29.6
482.sphinx3	4	2479	31.4	**2473**	**31.5**	2468	31.6	4	2510	31.1	2503	31.1	**2503**	**31.1**

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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