SPEC® CFP2006 Result

Bull SAS

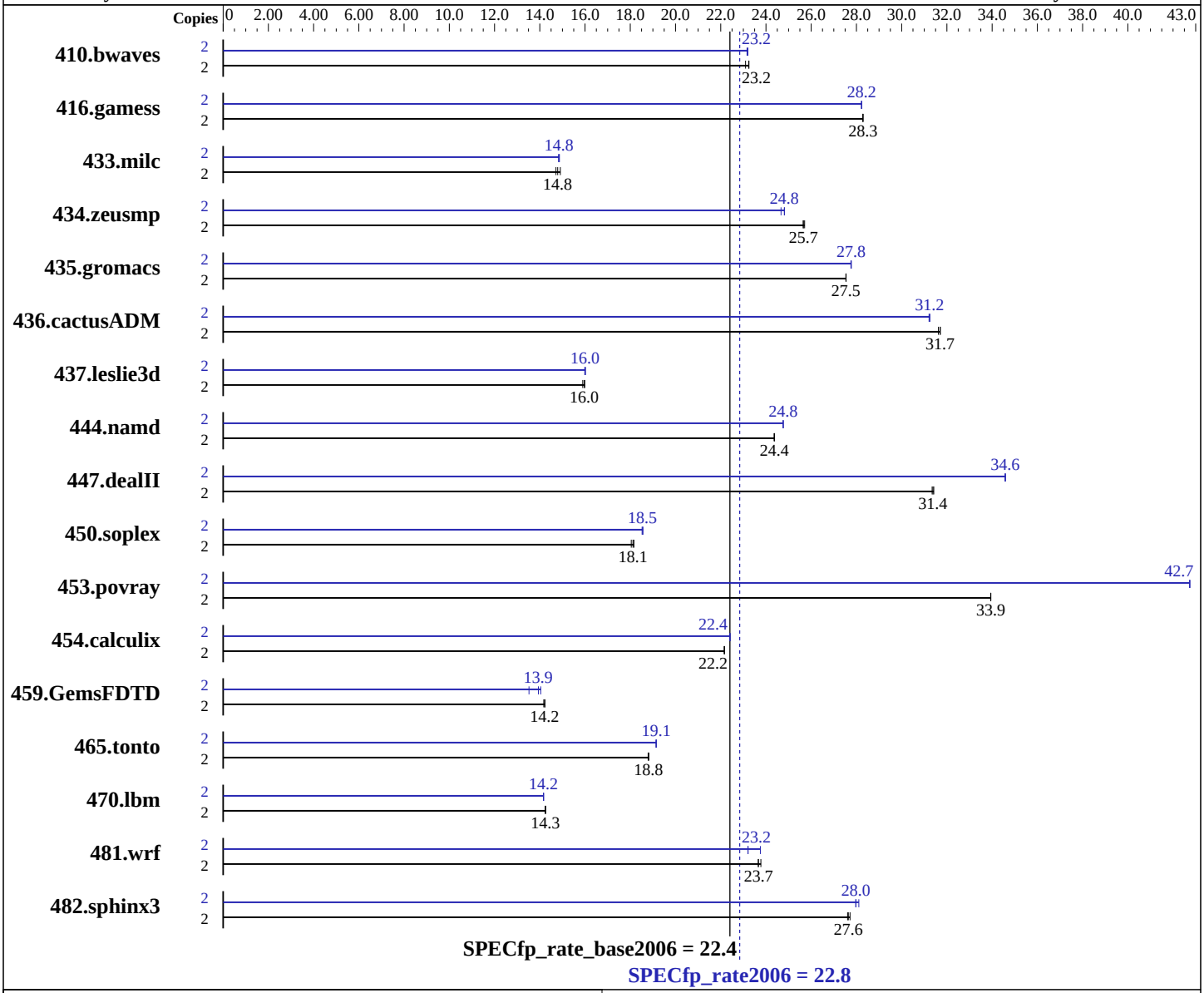
NovaScale T810 (Intel Xeon processor 3060,2.40GHz)

SPECfp®_rate2006 = 22.8

SPECfp_rate_base2006 = 22.4

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

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



Hardware

CPU Name:	Intel Xeon 3060
CPU Characteristics:	2.40 GHz, 4MB L2, 1066MHz bus
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
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 X64 Edition 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, PC2-5300E 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	2	1177	23.1	1169	23.2	**1170**	**23.2**	2	**1172**	**23.2**	1173	23.2	1171	23.2
416.gamess	2	**1384**	**28.3**	1384	28.3	1384	28.3	2	1387	28.2	1387	28.2	**1387**	**28.2**
433.milc	2	1248	14.7	**1241**	**14.8**	1232	14.9	2	1238	14.8	1235	14.9	**1236**	**14.8**
434.zeusmp	2	710	25.6	708	25.7	**709**	**25.7**	2	**734**	**24.8**	738	24.7	733	24.8
435.gromacs	2	519	27.5	**519**	**27.5**	518	27.5	2	514	27.8	514	27.8	**514**	**27.8**
436.cactusADM	2	756	31.6	**754**	**31.7**	754	31.7	2	766	31.2	765	31.2	**765**	**31.2**
437.leslie3d	2	1183	15.9	1176	16.0	**1177**	**16.0**	2	1176	16.0	**1174**	**16.0**	1174	16.0
444.namd	2	**658**	**24.4**	658	24.4	658	24.4	2	648	24.8	648	24.8	**648**	**24.8**
447.dealII	2	730	31.3	728	31.4	**729**	**31.4**	2	**662**	**34.6**	661	34.6	662	34.6
450.soplex	2	924	18.0	**921**	**18.1**	918	18.2	2	**899**	**18.5**	901	18.5	899	18.6
453.povray	2	313	33.9	**314**	**33.9**	314	33.9	2	**249**	**42.7**	249	42.7	249	42.7
454.calculix	2	745	22.2	**745**	**22.2**	744	22.2	2	**736**	**22.4**	736	22.4	736	22.4
459.GemsFDTD	2	1497	14.2	**1493**	**14.2**	1491	14.2	2	1511	14.0	**1523**	**13.9**	1569	13.5
465.tonto	2	1047	18.8	**1046**	**18.8**	1046	18.8	2	1028	19.2	**1028**	**19.1**	1028	19.1
470.lbm	2	1929	14.2	**1928**	**14.3**	1928	14.3	2	1940	14.2	**1940**	**14.2**	1940	14.2
481.wrf	2	940	23.8	944	23.7	**944**	**23.7**	2	941	23.8	963	23.2	**963**	**23.2**
482.sphinx3	2	1412	27.6	1406	27.7	**1410**	**27.6**	2	1394	28.0	1387	28.1	**1393**	**28.0**

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
```

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

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:02:08 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 17 April 2007.