SPEC® CFP2006 Result

Bull SAS

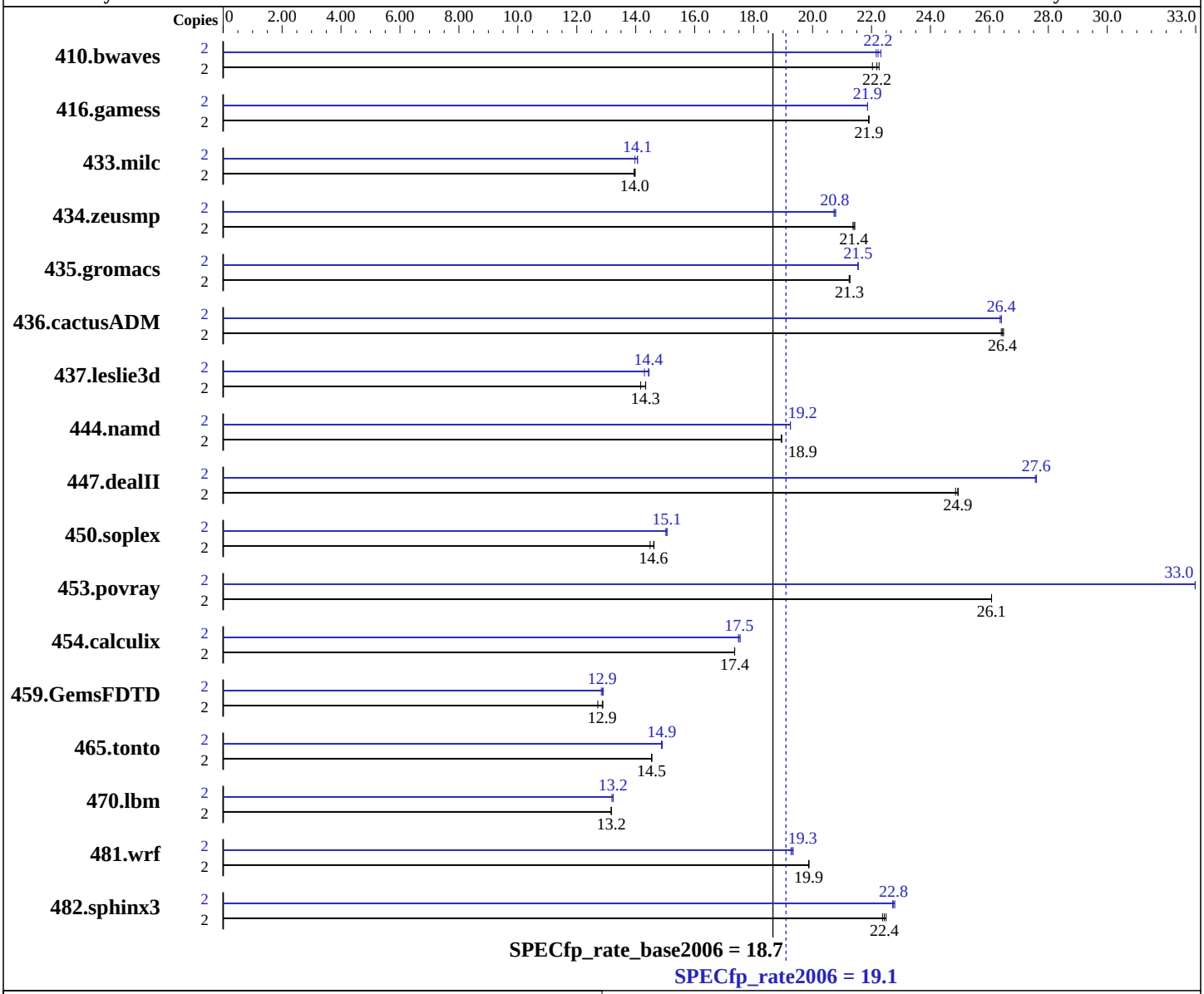
NovaScale T810 (Intel Xeon processor 3040,1.86GHz)

SPECfp®_rate2006 = 19.1

SPECfp_rate_base2006 = 18.7

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 3040
CPU Characteristics:	1.86 GHz, 4MB L2, 1066MHz bus
CPU MHz:	1860
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:	2 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	1234	22.0	1221	22.3	**1225**	**22.2**	2	1227	22.2	1218	22.3	**1223**	**22.2**
416.gamess	2	1787	21.9	**1787**	**21.9**	1787	21.9	2	**1791**	**21.9**	1791	21.9	1791	21.9
433.milc	2	**1315**	**14.0**	1313	14.0	1317	13.9	2	1314	14.0	**1306**	**14.1**	1306	14.1
434.zeusmp	2	852	21.4	**850**	**21.4**	849	21.4	2	878	20.7	**877**	**20.8**	876	20.8
435.gromacs	2	671	21.3	**672**	**21.3**	672	21.2	2	663	21.5	**663**	**21.5**	663	21.5
436.cactusADM	2	905	26.4	**904**	**26.4**	903	26.5	2	907	26.4	905	26.4	**905**	**26.4**
437.leslie3d	2	1327	14.2	1311	14.3	**1312**	**14.3**	2	1315	14.3	1301	14.5	**1303**	**14.4**
444.namd	2	847	18.9	847	18.9	**847**	**18.9**	2	**833**	**19.2**	833	19.2	833	19.3
447.dealII	2	**918**	**24.9**	917	24.9	921	24.9	2	830	27.6	829	27.6	**829**	**27.6**
450.soplex	2	1151	14.5	1141	14.6	**1142**	**14.6**	2	1111	15.0	1107	15.1	**1108**	**15.1**
453.povray	2	408	26.1	**408**	**26.1**	408	26.1	2	**323**	**33.0**	323	33.0	323	33.0
454.calculix	2	951	17.4	951	17.4	**951**	**17.4**	2	940	17.5	944	17.5	**943**	**17.5**
459.GemsFDTD	2	1647	12.9	1669	12.7	**1649**	**12.9**	2	1654	12.8	**1649**	**12.9**	1645	12.9
465.tonto	2	**1353**	**14.5**	1354	14.5	1353	14.5	2	1323	14.9	1320	14.9	**1322**	**14.9**
470.lbm	2	2087	13.2	**2086**	**13.2**	2086	13.2	2	2083	13.2	**2077**	**13.2**	2076	13.2
481.wrf	2	1125	19.9	**1125**	**19.9**	1124	19.9	2	1155	19.3	1160	19.3	**1157**	**19.3**
482.sphinx3	2	1742	22.4	**1737**	**22.4**	1733	22.5	2	1716	22.7	**1713**	**22.8**	1710	22.8

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.

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