SPEC® CFP2006 Result

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Bull SAS

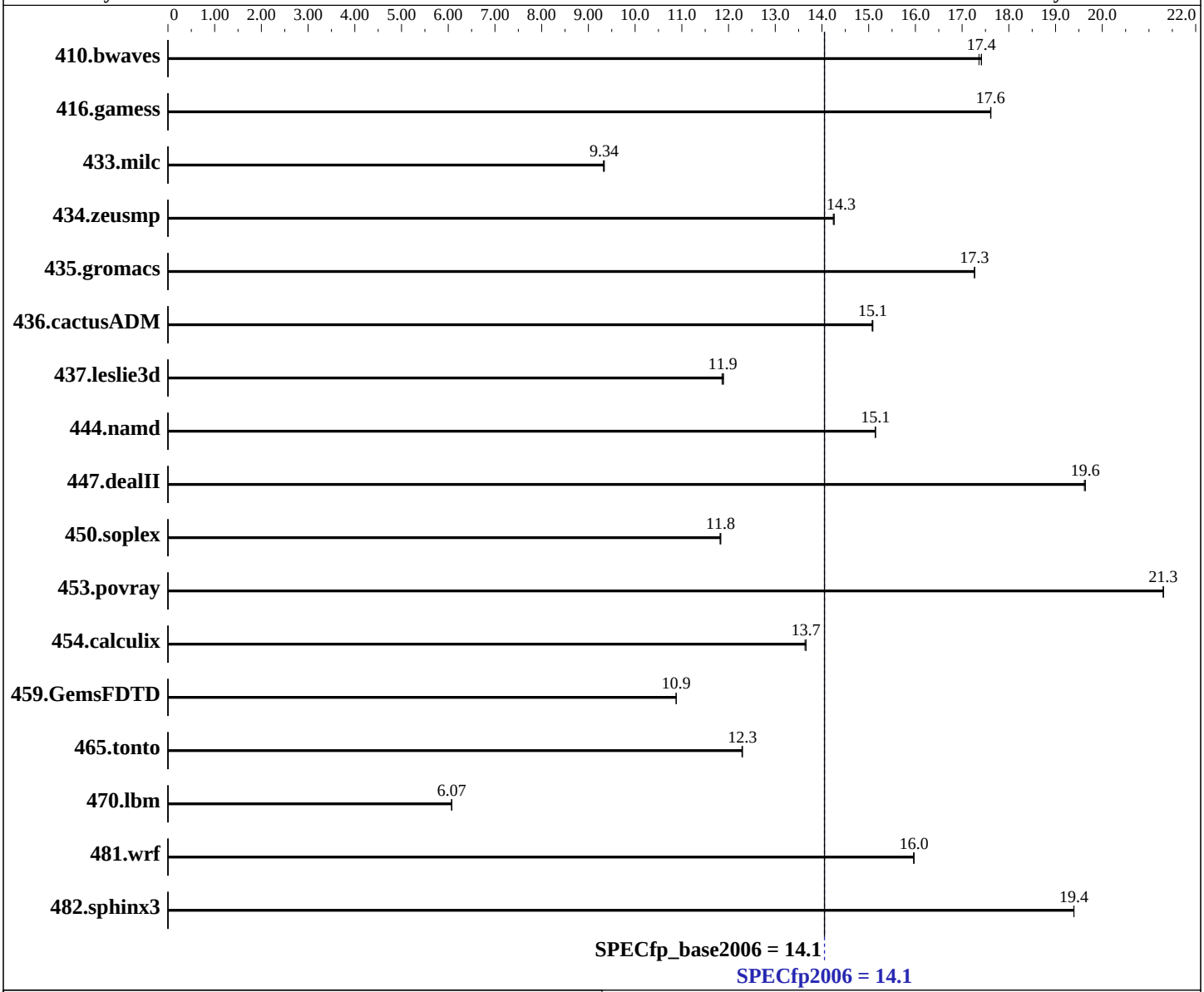
NovaScale T840 (3.00 GHz, Intel Xeon 5160)

SPECfp®2006 = 14.1

SPECfp_base2006 = 14.1

CPU2006 license: 3
Test sponsor: Bull SAS
Tested by: Bull SAS

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



Hardware

CPU Name:	Intel Xeon 5160
CPU Characteristics:	3.0GHz, 1332MHz bus
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 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 X64 Edition
Compiler:	Intel C++ Compiler for 32-bit Version 9.1.033 Build 20061103Z Package ID: W_CC_C_9.1.033 Intel Fortran Compiler for 32-bit Version 9.1.033 Build 20061103Z Package ID: W_FC_C_9.1.033 Visual Studio .NET 2003 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 8 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
Disk Subsystem: 3x73GB SCSI 15000 rpm
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	783	17.4	780	17.4	**781**	**17.4**	783	17.4	780	17.4	**781**	**17.4**
416.gamess	1112	17.6	**1112**	**17.6**	1111	17.6	1112	17.6	**1112**	**17.6**	1111	17.6
433.milc	985	9.32	983	9.34	**983**	**9.34**	985	9.32	983	9.34	**983**	**9.34**
434.zeusmp	639	14.2	638	14.3	**638**	**14.3**	639	14.2	638	14.3	**638**	**14.3**
435.gromacs	**414**	**17.3**	414	17.3	414	17.3	**414**	**17.3**	414	17.3	414	17.3
436.cactusADM	793	15.1	**792**	**15.1**	792	15.1	793	15.1	**792**	**15.1**	792	15.1
437.leslie3d	793	11.9	790	11.9	**792**	**11.9**	793	11.9	790	11.9	**792**	**11.9**
444.namd	530	15.1	530	15.1	**530**	**15.1**	530	15.1	530	15.1	**530**	**15.1**
447.dealII	583	19.6	**583**	**19.6**	583	19.6	583	19.6	**583**	**19.6**	583	19.6
450.soplex	706	11.8	705	11.8	**705**	**11.8**	706	11.8	705	11.8	**705**	**11.8**
453.povray	250	21.3	250	21.3	**250**	**21.3**	250	21.3	250	21.3	**250**	**21.3**
454.calculix	605	13.6	604	13.7	**604**	**13.7**	605	13.6	604	13.7	**604**	**13.7**
459.GemsFDTD	**975**	**10.9**	975	10.9	975	10.9	**975**	**10.9**	975	10.9	975	10.9
465.tonto	800	12.3	**800**	**12.3**	801	12.3	800	12.3	**800**	**12.3**	801	12.3
470.lbm	2262	6.07	**2262**	**6.07**	2262	6.07	2262	6.07	**2262**	**6.07**	2262	6.07
481.wrf	699	16.0	700	16.0	**699**	**16.0**	699	16.0	700	16.0	**699**	**16.0**
482.sphinx3	1005	19.4	**1005**	**19.4**	1005	19.4	1005	19.4	**1005**	**19.4**	1005	19.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

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 Optimization Flags

C benchmarks:

433.milc: basepeak = yes

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Peak Optimization Flags (Continued)

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: basepeak = yes

450.soplex: basepeak = yes

453.povray: basepeak = yes

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

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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