SPEC® CFP2006 Result

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Bull SAS

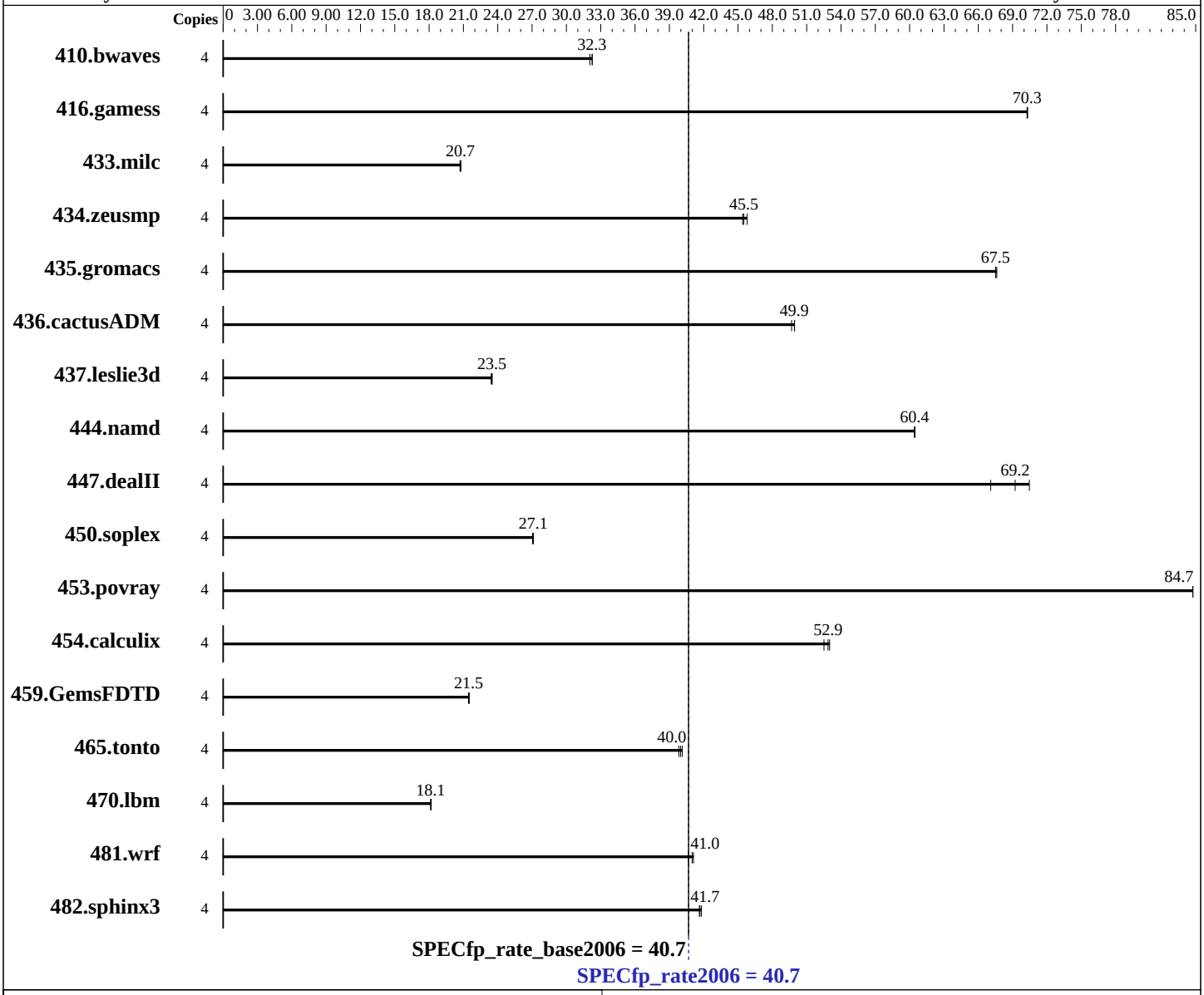
NovaScale T840 (3.00 GHz, Intel Xeon 5160)

SPECfp®_rate2006 = 40.7

SPECfp_rate_base2006 = 40.7

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 9.1.033 for 32-bit app. Build 20061103Z Package ID: W_CC_C_9.1.032 Intel Fortran Compiler 9.1.033 for 32-bit app. Build 20060928Z Package ID: W_FC_C_9.1.033 Microsoft Visual Studio .NET 2003 (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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1685	32.3	**1686**	**32.3**	1696	32.1	4	1685	32.3	**1686**	**32.3**	1696	32.1
416.gamess	4	**1114**	**70.3**	1115	70.3	1114	70.3	4	**1114**	**70.3**	1115	70.3	1114	70.3
433.milc	4	**1771**	**20.7**	1767	20.8	1774	20.7	4	**1771**	**20.7**	1767	20.8	1774	20.7
434.zeusmp	4	802	45.4	**800**	**45.5**	795	45.8	4	802	45.4	**800**	**45.5**	795	45.8
435.gromacs	4	422	67.6	**423**	**67.5**	423	67.5	4	422	67.6	**423**	**67.5**	423	67.5
436.cactusADM	4	962	49.7	**957**	**49.9**	957	49.9	4	962	49.7	**957**	**49.9**	957	49.9
437.leslie3d	4	1605	23.4	**1601**	**23.5**	1599	23.5	4	1605	23.4	**1601**	**23.5**	1599	23.5
444.namd	4	531	60.4	**531**	**60.4**	531	60.4	4	531	60.4	**531**	**60.4**	531	60.4
447.dealII	4	682	67.1	649	70.5	**661**	**69.2**	4	682	67.1	649	70.5	**661**	**69.2**
450.soplex	4	1234	27.0	1230	27.1	**1231**	**27.1**	4	1234	27.0	1230	27.1	**1231**	**27.1**
453.povray	4	**251**	**84.7**	251	84.8	251	84.7	4	**251**	**84.7**	251	84.8	251	84.7
454.calculix	4	**624**	**52.9**	623	53.0	628	52.5	4	**624**	**52.9**	623	53.0	628	52.5
459.GemsFDTD	4	1973	21.5	1979	21.4	**1977**	**21.5**	4	1973	21.5	1979	21.4	**1977**	**21.5**
465.tonto	4	981	40.1	**984**	**40.0**	988	39.8	4	981	40.1	**984**	**40.0**	988	39.8
470.lbm	4	3022	18.2	3030	18.1	**3028**	**18.1**	4	3022	18.2	3030	18.1	**3028**	**18.1**
481.wrf	4	**1090**	**41.0**	1098	40.7	1087	41.1	4	**1090**	**41.0**	1098	40.7	1087	41.1
482.sphinx3	4	1865	41.8	1873	41.6	**1871**	**41.7**	4	1865	41.8	1873	41.6	**1871**	**41.7**

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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