



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECfp®_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

CPU2006 license: 20

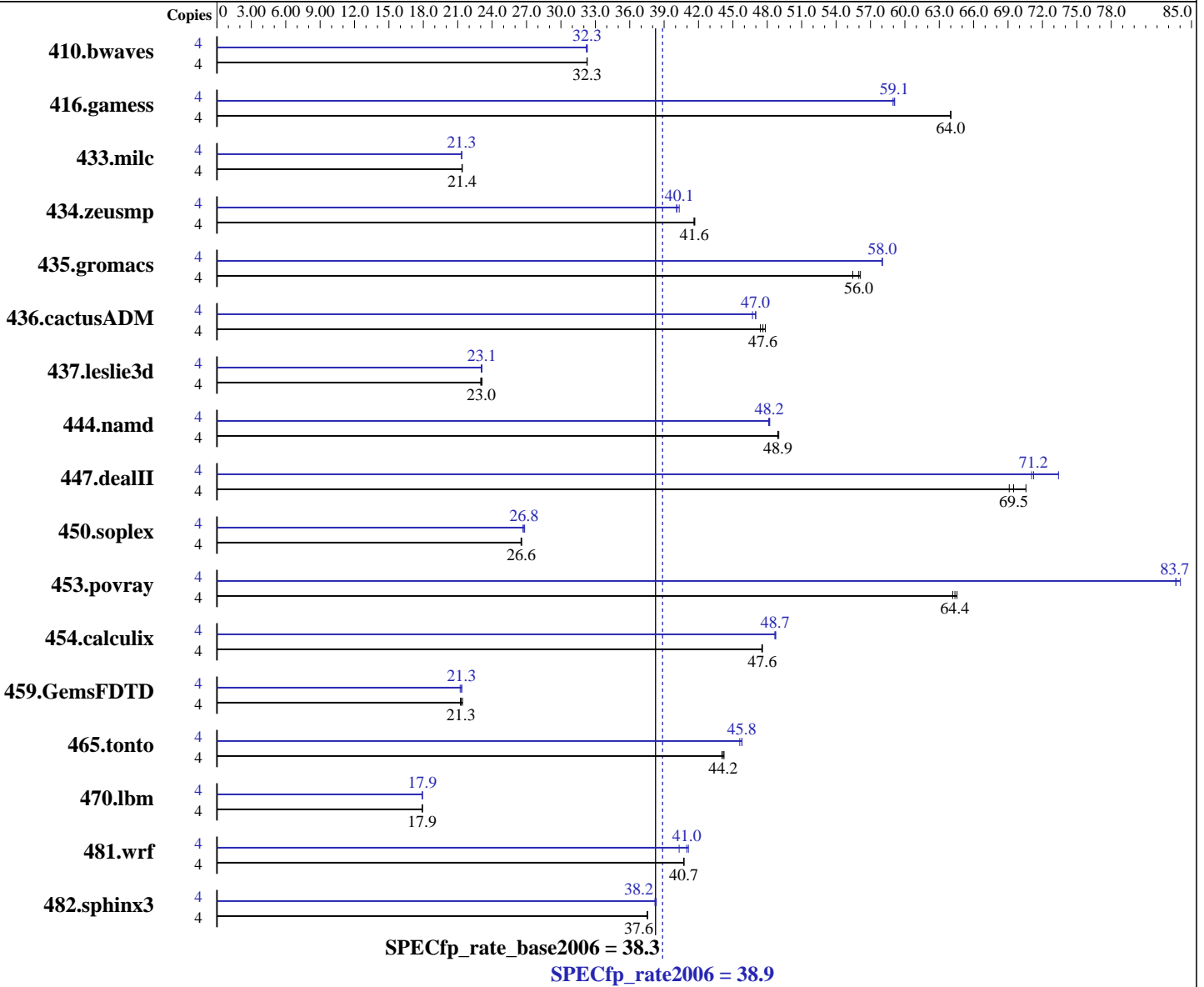
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006



Hardware

CPU Name: Intel Xeon 5140
 CPU Characteristics: 2.33 GHz, 4 MB L2, 1333 MHz system bus
 CPU MHz: 2333
 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

Continued on next page

Software

Operating System: SuSE Linux Enterprise Server 10 (EM64T)
 kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_cc_c_9.1.045 Build no 20061101
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_fc_c_9.1.040 Build no 20061101
 Auto Parallel: No

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECfp_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006

L3 Cache: None
Other Cache: None
Memory: 24 GB (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 15000 RPM
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	4	1683	32.3	1684	32.3	1684	32.3	4	1687	32.2	1684	32.3	1683	32.3		
416.gamess	4	1224	64.0	1224	64.0	1224	64.0	4	1328	59.0	1326	59.1	1325	59.1		
433.milc	4	1718	21.4	1716	21.4	1718	21.4	4	1720	21.3	1720	21.3	1721	21.3		
434.zeusmp	4	875	41.6	873	41.7	874	41.6	4	908	40.1	907	40.1	903	40.3		
435.gromacs	4	515	55.5	509	56.1	510	56.0	4	492	58.0	492	58.0	492	58.0		
436.cactusADM	4	1004	47.6	1009	47.4	999	47.8	4	1017	47.0	1018	47.0	1023	46.7		
437.leslie3d	4	1626	23.1	1631	23.0	1634	23.0	4	1631	23.1	1628	23.1	1626	23.1		
444.namd	4	655	49.0	656	48.9	656	48.9	4	665	48.2	666	48.2	667	48.1		
447.dealII	4	662	69.1	659	69.5	649	70.6	4	644	71.1	642	71.2	623	73.4		
450.soplex	4	1256	26.6	1255	26.6	1258	26.5	4	1246	26.8	1250	26.7	1243	26.8		
453.povray	4	330	64.5	331	64.4	332	64.2	4	253	84.0	254	83.7	254	83.6		
454.calculix	4	694	47.6	694	47.6	694	47.5	4	677	48.7	678	48.7	678	48.7		
459.GemsFDTD	4	1998	21.2	1992	21.3	1981	21.4	4	1989	21.3	1988	21.4	2001	21.2		
465.tonto	4	890	44.2	894	44.0	891	44.2	4	863	45.6	859	45.8	860	45.8		
470.lbm	4	3071	17.9	3066	17.9	3069	17.9	4	3068	17.9	3068	17.9	3067	17.9		
481.wrf	4	1097	40.7	1097	40.7	1097	40.7	4	1108	40.3	1087	41.1	1090	41.0		
482.sphinx3	4	2078	37.5	2075	37.6	2076	37.6	4	2034	38.3	2041	38.2	2039	38.2		

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

Operating System Notes

Environment stack size set to 'unlimited'
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

The NovaScale R440 and the NovaScale R460 models are electronically equivalent.
The results have been measured on a NovaScale R460 model.



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECfp_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

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

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

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECfp_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

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

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

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/EM64T_Intel91_flags.xml



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R440
(Intel Xeon processor 5140,2.33GHz)

SPECfp_rate2006 = 38.9

SPECfp_rate_base2006 = 38.3

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

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

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 11:10:47 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 12 June 2007.