SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

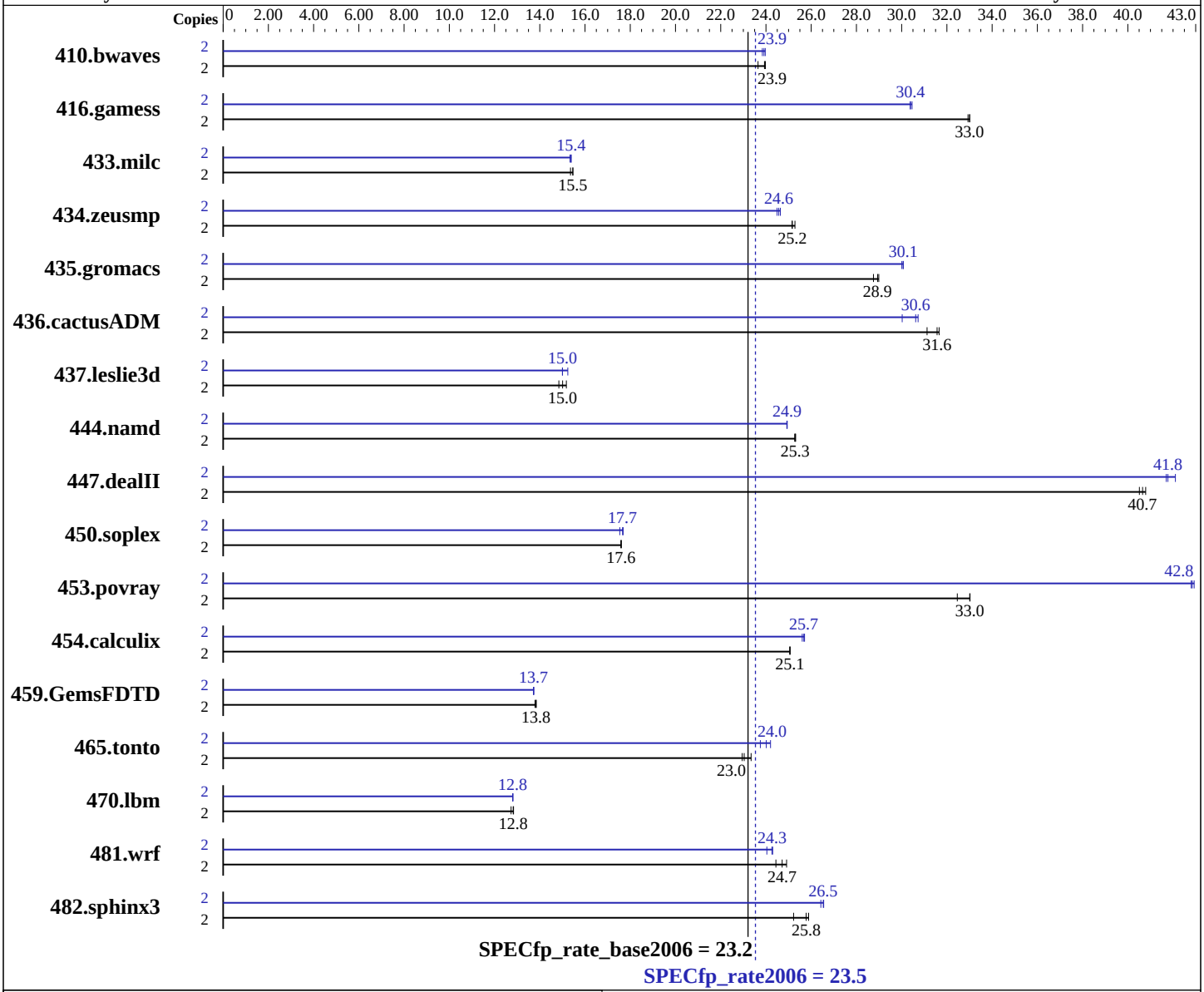
NovaScale T820
(Intel Xeon processor 3060, 2.40GHz)

SPECfp®_rate2006 = 23.5

SPECfp_rate_base2006 = 23.2

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 3060
CPU Characteristics:	2.40 GHz, 4 MB L2, 1066 MHz system 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

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 T820
(Intel Xeon processor 3060, 2.40GHz)

SPECfp_rate2006 = 23.5

SPECfp_rate_base2006 = 23.2

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: 4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem: 1x160 GB SATA2, 7200 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	2	1149	23.6	**1136**	**23.9**	1134	24.0	2	1134	24.0	**1137**	**23.9**	1140	23.8
416.gamess	2	1186	33.0	1189	32.9	**1187**	**33.0**	2	**1289**	**30.4**	1286	30.5	1289	30.4
433.milc	2	1195	15.4	**1188**	**15.5**	1187	15.5	2	1193	15.4	**1193**	**15.4**	1197	15.3
434.zeusmp	2	**723**	**25.2**	724	25.2	720	25.3	2	739	24.6	743	24.5	**741**	**24.6**
435.gromacs	2	**494**	**28.9**	493	29.0	497	28.8	2	476	30.0	**475**	**30.1**	475	30.1
436.cactusADM	2	**757**	**31.6**	768	31.1	755	31.7	2	796	30.0	778	30.7	**781**	**30.6**
437.leslie3d	2	1267	14.8	1239	15.2	**1253**	**15.0**	2	1253	15.0	1234	15.2	**1253**	**15.0**
444.namd	2	**634**	**25.3**	635	25.3	634	25.3	2	643	24.9	644	24.9	**643**	**24.9**
447.dealII	2	**563**	**40.7**	565	40.5	561	40.8	2	549	41.7	543	42.1	**548**	**41.8**
450.soplex	2	948	17.6	948	17.6	**948**	**17.6**	2	951	17.5	**945**	**17.7**	943	17.7
453.povray	2	**322**	**33.0**	328	32.5	322	33.0	2	248	42.9	249	42.8	**248**	**42.8**
454.calculix	2	**658**	**25.1**	658	25.1	659	25.1	2	642	25.7	**643**	**25.7**	644	25.6
459.GemsFDTD	2	1539	13.8	1533	13.8	**1534**	**13.8**	2	1544	13.7	1547	13.7	**1546**	**13.7**
465.tonto	2	858	22.9	843	23.3	**854**	**23.0**	2	829	23.8	**820**	**24.0**	813	24.2
470.lbm	2	2159	12.7	2140	12.8	**2143**	**12.8**	2	2147	12.8	2144	12.8	**2146**	**12.8**
481.wrf	2	**904**	**24.7**	914	24.4	897	24.9	2	919	24.3	929	24.0	**921**	**24.3**
482.sphinx3	2	1545	25.2	1506	25.9	**1512**	**25.8**	2	1475	26.4	**1469**	**26.5**	1468	26.6

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
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Continued on next page

Base Compiler Invocation (Continued)

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

Peak Compiler Invocation

C benchmarks:
icc

Continued on next page

Peak Compiler Invocation (Continued)

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 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 11:21:42 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 26 June 2007.