SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

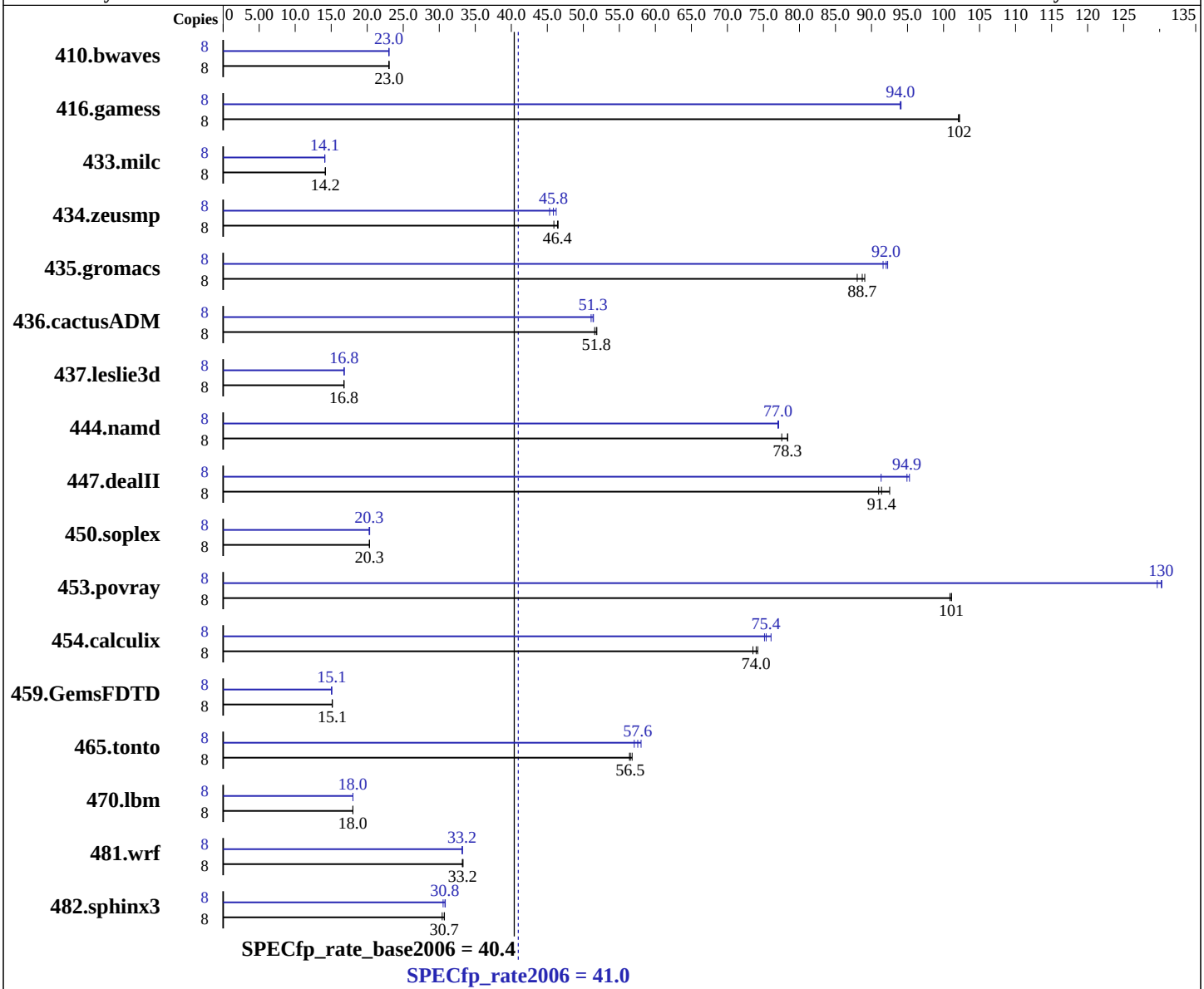
NovaScale R460
(Intel Xeon processor E5320,1.86GHz)

SPECfp®_rate2006 = 41.0

SPECfp_rate_base2006 = 40.4

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

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



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 8 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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 R460
(Intel Xeon processor E5320,1.86GHz)

SPECfp_rate2006 = 41.0

SPECfp_rate_base2006 = 40.4

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

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

L3 Cache: None
Other Cache: None
Memory: 12 GB (12x1 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 10000 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	8	4724	23.0	**4723**	**23.0**	4722	23.0	8	4726	23.0	**4724**	**23.0**	4724	23.0
416.gamess	8	1535	102	1532	102	**1533**	**102**	8	1664	94.1	1667	94.0	**1666**	**94.0**
433.milc	8	5177	14.2	**5175**	**14.2**	5174	14.2	8	5206	14.1	**5204**	**14.1**	5204	14.1
434.zeusmp	8	**1569**	**46.4**	1566	46.5	1586	45.9	8	1606	45.3	**1588**	**45.8**	1575	46.2
435.gromacs	8	**644**	**88.7**	649	88.0	641	89.1	8	619	92.2	**621**	**92.0**	624	91.6
436.cactusADM	8	1843	51.9	**1845**	**51.8**	1854	51.6	8	1872	51.1	1860	51.4	**1862**	**51.3**
437.leslie3d	8	**4484**	**16.8**	4485	16.8	4483	16.8	8	4482	16.8	**4477**	**16.8**	4476	16.8
444.namd	8	819	78.4	827	77.5	**819**	**78.3**	8	832	77.1	**833**	**77.0**	833	77.0
447.dealII	8	989	92.5	1006	91.0	**1001**	**91.4**	8	961	95.3	1002	91.3	**964**	**94.9**
450.soplex	8	3287	20.3	3283	20.3	**3285**	**20.3**	8	**3289**	**20.3**	3289	20.3	3280	20.3
453.povray	8	421	101	**421**	**101**	422	101	8	**327**	**130**	328	130	327	130
454.calculix	8	897	73.5	889	74.2	**892**	**74.0**	8	**876**	**75.4**	878	75.1	868	76.1
459.GemsFDTD	8	5610	15.1	5597	15.2	**5604**	**15.1**	8	5646	15.0	**5633**	**15.1**	5632	15.1
465.tonto	8	1396	56.4	**1393**	**56.5**	1387	56.8	8	1357	58.0	1379	57.1	**1368**	**57.6**
470.lbm	8	6106	18.0	**6101**	**18.0**	6101	18.0	8	6100	18.0	6101	18.0	**6101**	**18.0**
481.wrf	8	**2689**	**33.2**	2690	33.2	2683	33.3	8	2689	33.2	2694	33.2	**2694**	**33.2**
482.sphinx3	8	5128	30.4	**5081**	**30.7**	5075	30.7	8	5106	30.5	**5065**	**30.8**	5056	30.8

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'
```

General Notes

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

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

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

Copyright 2006-2014 Standard Performance Evaluation Corporation

Bull SAS

NovaScale R460
(Intel Xeon processor E5320,1.86GHz)

SPECfp_rate2006 = 41.0

SPECfp_rate_base2006 = 40.4

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

Test date: Apr-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 11:49:25 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 29 May 2007.