SPEC® CFP2006 Result

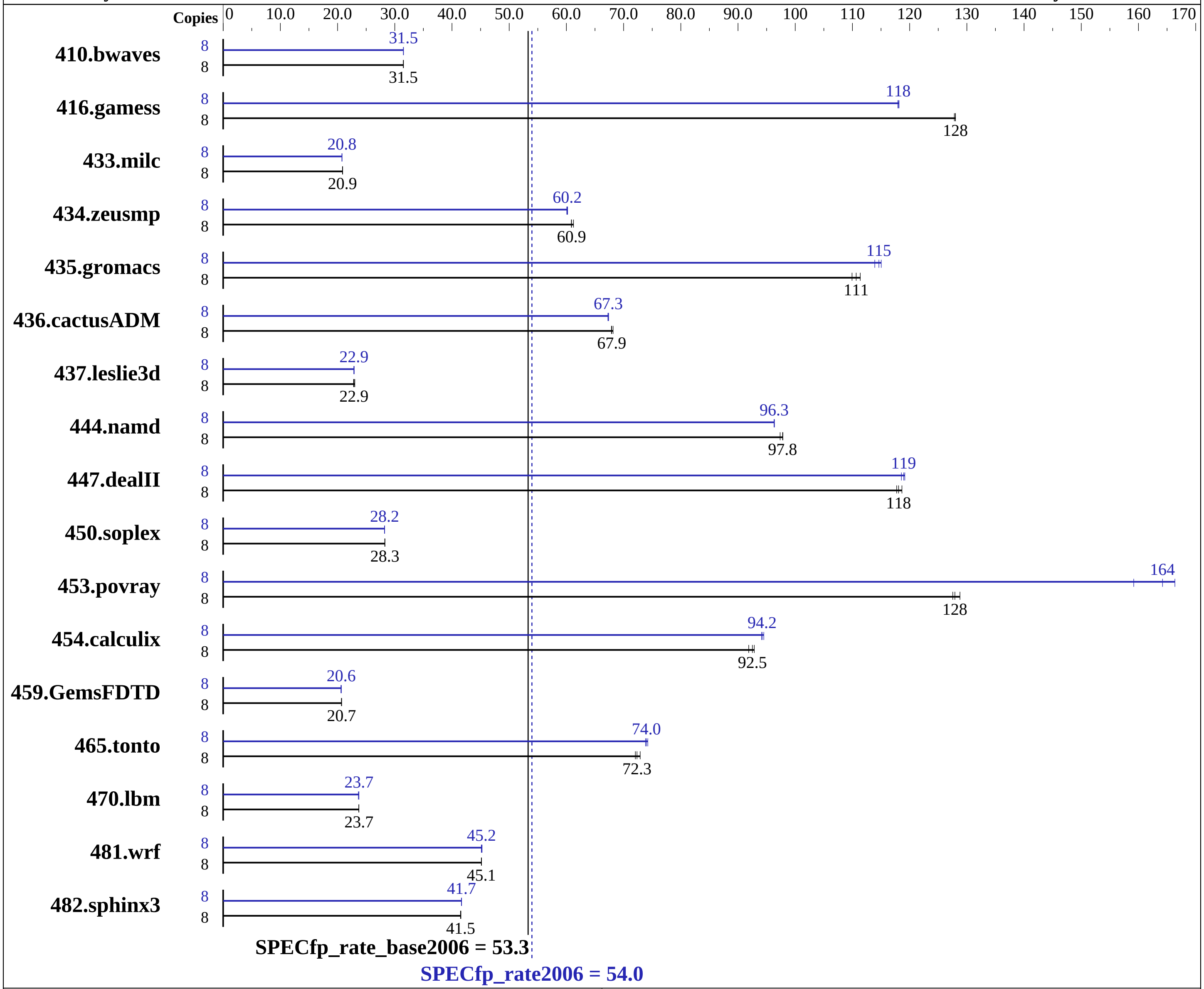
Bull SAS

NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECfp®_rate2006 = 54.0

SPECfp_rate_base2006 = 53.3

CPU2006 license: 20		**Test date:**	Apr-2007
Test sponsor:	Bull SAS	**Hardware Availability:**	Mar-2007
Tested by:	Bull SAS	**Software Availability:**	Dec-2006



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	2.33GHz, 2x4 MB L2 shared, 1333 MHz system bus
CPU MHz:	2330
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

Bull SAS

NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECfp_rate2006 = 54.0

SPECfp_rate_base2006 = 53.3

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: 24 GB (2GB DIMMx12, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
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

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	3449	31.5	3451	31.5	**3451**	**31.5**	8	3448	31.5	**3450**	**31.5**	3450	31.5
416.gamess	8	1224	128	**1224**	**128**	1226	128	8	**1327**	**118**	1326	118	1328	118
433.milc	8	**3518**	**20.9**	3515	20.9	3519	20.9	8	3533	20.8	3538	20.8	**3537**	**20.8**
434.zeusmp	8	1189	61.2	**1195**	**60.9**	1196	60.9	8	1209	60.2	**1210**	**60.2**	1212	60.1
435.gromacs	8	520	110	513	111	**516**	**111**	8	**498**	**115**	501	114	497	115
436.cactusADM	8	**1408**	**67.9**	1403	68.2	1408	67.9	8	1419	67.4	**1420**	**67.3**	1421	67.3
437.leslie3d	8	3267	23.0	3298	22.8	**3287**	**22.9**	8	3293	22.8	**3287**	**22.9**	3283	22.9
444.namd	8	659	97.4	**656**	**97.8**	656	97.8	8	666	96.4	666	96.3	**666**	**96.3**
447.dealII	8	771	119	777	118	**775**	**118**	8	**769**	**119**	768	119	772	119
450.soplex	8	**2360**	**28.3**	2362	28.2	2360	28.3	8	**2364**	**28.2**	2365	28.2	2363	28.2
453.povray	8	334	128	**333**	**128**	330	129	8	267	159	256	166	**259**	**164**
454.calculix	8	**713**	**92.5**	718	91.9	711	92.8	8	698	94.5	**700**	**94.2**	701	94.1
459.GemsFDTD	8	4106	20.7	**4103**	**20.7**	4097	20.7	8	4124	20.6	4110	20.7	**4111**	**20.6**
465.tonto	8	**1088**	**72.3**	1093	72.1	1080	72.9	8	**1064**	**74.0**	1061	74.2	1066	73.8
470.lbm	8	4632	23.7	**4632**	**23.7**	4631	23.7	8	**4631**	**23.7**	4651	23.6	4631	23.7
481.wrf	8	**1979**	**45.1**	1980	45.1	1979	45.2	8	**1978**	**45.2**	1974	45.3	1980	45.1
482.sphinx3	8	3751	41.6	3758	41.5	**3755**	**41.5**	8	**3743**	**41.7**	3740	41.7	3743	41.7

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 R440 model.
```

Bull SAS

NovaScale R460
(Intel Xeon processor E5345,2.33GHz)

SPECfp_rate2006 = 54.0

SPECfp_rate_base2006 = 53.3

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

Test date: Apr-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`

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

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 12:09:28 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 May 2007.