SPEC® CFP2006 Result

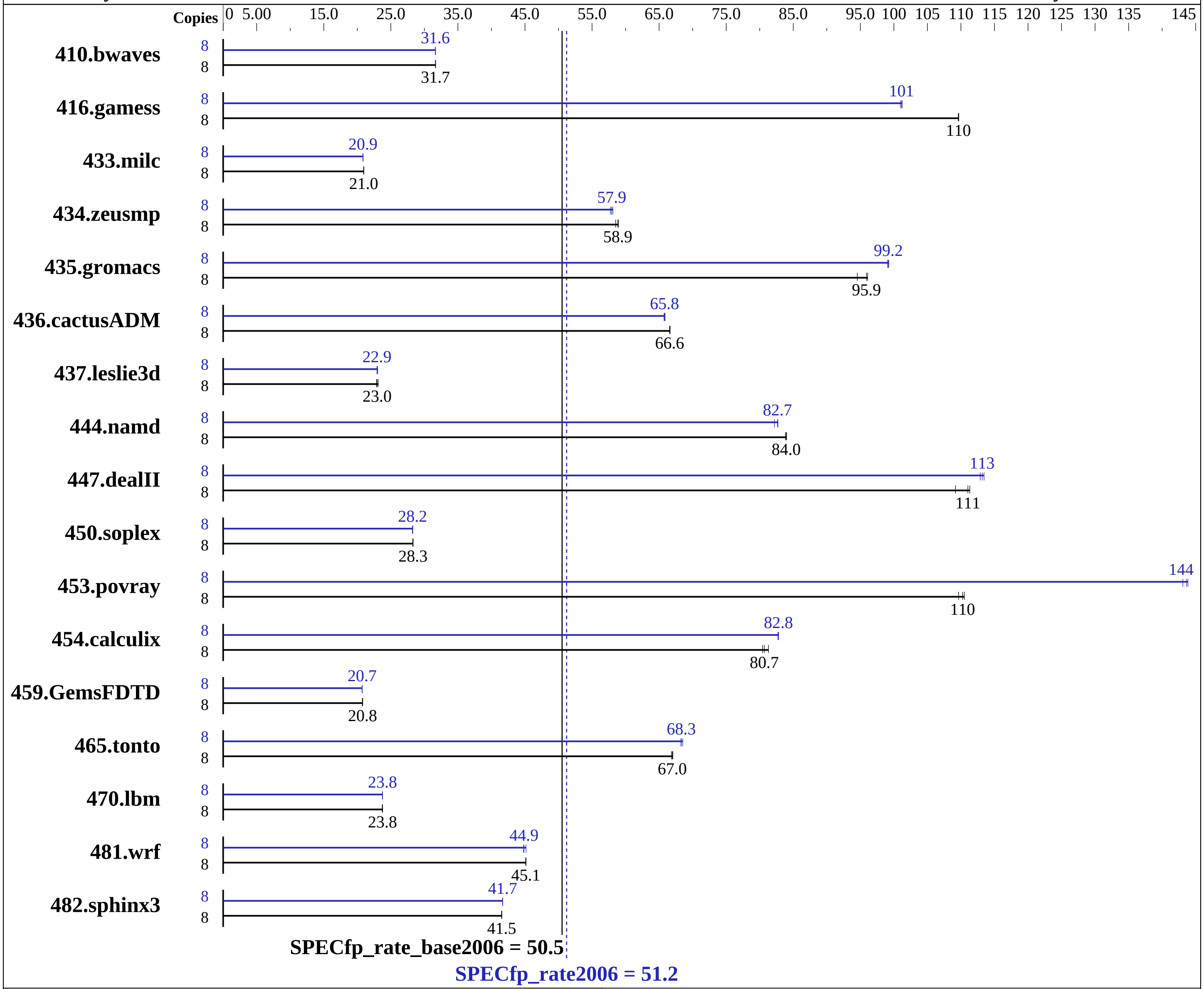
Bull SAS

NovaScale R440
(Intel Xeon processor E5335,2.00GHz)

SPECfp®_rate2006 = 51.2

SPECfp_rate_base2006 = 50.5

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 E5335
CPU Characteristics:	2.0GHz, 2x4 MB L2 shared, 1333 MHz system bus
CPU MHz:	2000
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

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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

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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	3435	31.6	**3434**	**31.7**	3433	31.7	8	3436	31.6	3433	31.7	**3436**	**31.6**
416.gamess	8	1429	110	1428	110	**1429**	**110**	8	1551	101	**1549**	**101**	1547	101
433.milc	8	3503	21.0	3504	21.0	**3504**	**21.0**	8	3523	20.8	**3520**	**20.9**	3518	20.9
434.zeusmp	8	1236	58.9	1244	58.5	**1237**	**58.9**	8	1253	58.1	1261	57.8	**1257**	**57.9**
435.gromacs	8	594	96.1	**595**	**95.9**	604	94.5	8	577	99.1	576	99.2	**576**	**99.2**
436.cactusADM	8	**1436**	**66.6**	1435	66.6	1436	66.6	8	1454	65.7	**1453**	**65.8**	1451	65.9
437.leslie3d	8	3254	23.1	**3277**	**23.0**	3287	22.9	8	**3277**	**22.9**	3280	22.9	3264	23.0
444.namd	8	765	83.8	764	84.0	**764**	**84.0**	8	781	82.2	776	82.7	**776**	**82.7**
447.dealII	8	**824**	**111**	838	109	822	111	8	811	113	807	113	**809**	**113**
450.soplex	8	2356	28.3	2360	28.3	**2356**	**28.3**	8	2360	28.3	**2362**	**28.2**	2365	28.2
453.povray	8	388	110	**386**	**110**	385	111	8	297	143	**296**	**144**	296	144
454.calculix	8	821	80.4	812	81.3	**818**	**80.7**	8	797	82.8	**797**	**82.8**	798	82.7
459.GemsFDTD	8	4091	20.7	**4084**	**20.8**	4080	20.8	8	**4095**	**20.7**	4098	20.7	4095	20.7
465.tonto	8	**1175**	**67.0**	1178	66.9	1174	67.0	8	1149	68.5	1153	68.3	**1152**	**68.3**
470.lbm	8	4625	23.8	4634	23.7	**4625**	**23.8**	8	**4624**	**23.8**	4626	23.8	4624	23.8
481.wrf	8	1979	45.2	1981	45.1	**1980**	**45.1**	8	**1992**	**44.9**	1995	44.8	1979	45.2
482.sphinx3	8	3756	41.5	3753	41.5	**3755**	**41.5**	8	3740	41.7	**3741**	**41.7**	3742	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'
```

General Notes

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

SPEC CFP2006 Result

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

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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