SPEC® CFP2006 Result

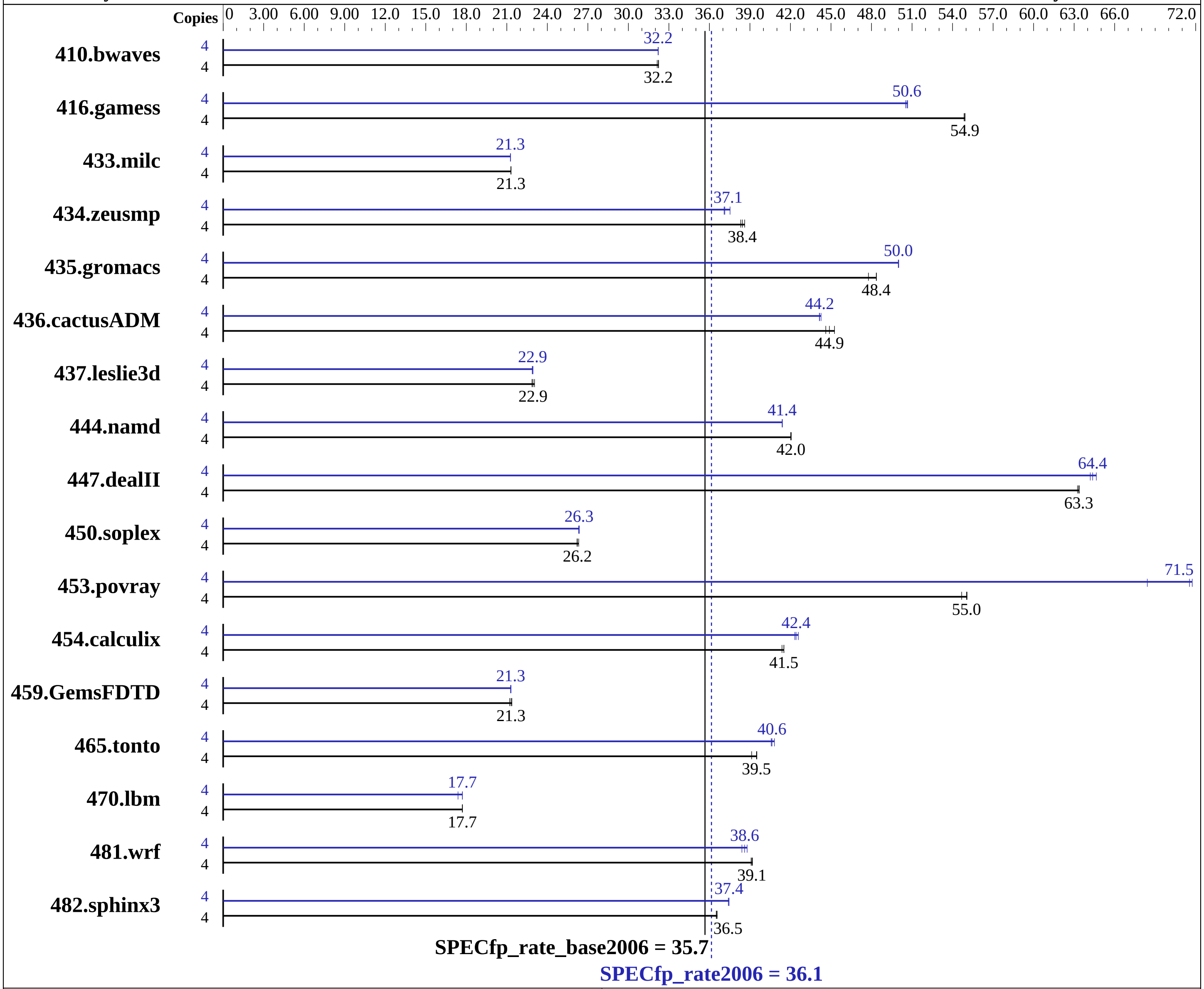
Bull SAS

NovaScale R440
(Intel Xeon processor 5130,2.00GHz)

SPECfp®_rate2006 = 36.1

SPECfp_rate_base2006 = 35.7

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



Hardware

CPU Name:	Intel Xeon 5130
CPU Characteristics:	2.00 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2000
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

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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

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**1687**	**32.2**	1686	32.2	1692	32.1	4	1687	32.2	1688	32.2	**1688**	**32.2**
416.gamess	4	1428	54.9	1426	54.9	**1426**	**54.9**	4	**1547**	**50.6**	1550	50.5	1545	50.7
433.milc	4	1724	21.3	**1723**	**21.3**	1723	21.3	4	**1726**	**21.3**	1726	21.3	1727	21.3
434.zeusmp	4	943	38.6	**947**	**38.4**	950	38.3	4	**980**	**37.1**	970	37.5	981	37.1
435.gromacs	4	598	47.8	591	48.4	**591**	**48.4**	4	**571**	**50.0**	571	50.0	571	50.0
436.cactusADM	4	1056	45.3	1071	44.6	**1065**	**44.9**	4	1083	44.1	1080	44.3	**1083**	**44.2**
437.leslie3d	4	1631	23.1	**1639**	**22.9**	1645	22.9	4	1643	22.9	**1641**	**22.9**	1639	22.9
444.namd	4	763	42.1	763	42.0	**763**	**42.0**	4	**775**	**41.4**	775	41.4	775	41.4
447.dealII	4	722	63.4	724	63.2	**722**	**63.3**	4	**711**	**64.4**	713	64.2	708	64.6
450.soplex	4	1267	26.3	1273	26.2	**1272**	**26.2**	4	**1266**	**26.3**	1265	26.4	1267	26.3
453.povray	4	389	54.7	386	55.1	**387**	**55.0**	4	**297**	**71.5**	311	68.4	297	71.7
454.calculix	4	795	41.5	**795**	**41.5**	798	41.4	4	780	42.3	**778**	**42.4**	775	42.6
459.GemsFDTD	4	**1991**	**21.3**	1985	21.4	2001	21.2	4	1992	21.3	1994	21.3	**1993**	**21.3**
465.tonto	4	1006	39.1	**997**	**39.5**	996	39.5	4	970	40.6	964	40.8	**969**	**40.6**
470.lbm	4	**3103**	**17.7**	3101	17.7	3104	17.7	4	3161	17.4	**3103**	**17.7**	3102	17.7
481.wrf	4	1143	39.1	1140	39.2	**1141**	**39.1**	4	1152	38.8	**1157**	**38.6**	1163	38.4
482.sphinx3	4	2131	36.6	2135	36.5	**2135**	**36.5**	4	2084	37.4	2082	37.5	**2082**	**37.4**

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.
```

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

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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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