SPEC® CFP2006 Result

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Bull SAS

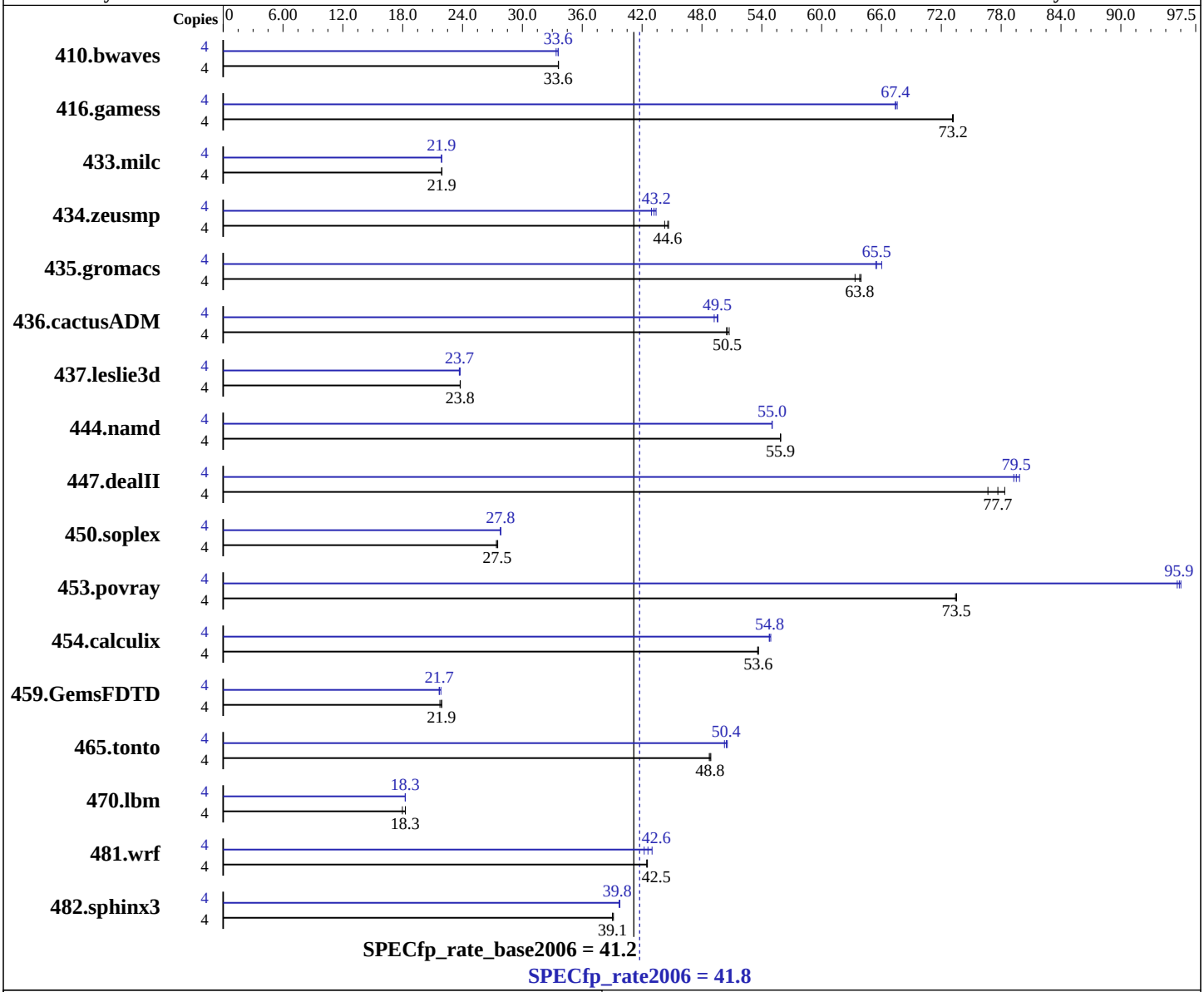
NovaScale R460
(Intel Xeon processor 5150,2.66GHz)

SPECfp®_rate2006 = 41.8

SPECfp_rate_base2006 = 41.2

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 5150
CPU Characteristics:	2.66 GHz, 4 MB L2, 1333 MHz system bus
CPU MHz:	2666
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

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	**1618**	**33.6**	1618	33.6	1617	33.6	4	1618	33.6	**1619**	**33.6**	1628	33.4
416.gamess	4	1070	73.2	**1070**	**73.2**	1071	73.1	4	1162	67.4	1159	67.6	**1162**	**67.4**
433.milc	4	1677	21.9	**1674**	**21.9**	1674	21.9	4	**1677**	**21.9**	1676	21.9	1677	21.9
434.zeusmp	4	822	44.3	**817**	**44.6**	815	44.7	4	848	42.9	**843**	**43.2**	839	43.4
435.gromacs	4	447	63.9	**448**	**63.8**	451	63.3	4	436	65.4	433	66.0	**436**	**65.5**
436.cactusADM	4	947	50.5	**946**	**50.5**	942	50.7	4	**965**	**49.5**	964	49.6	971	49.2
437.leslie3d	4	**1582**	**23.8**	1581	23.8	1582	23.8	4	**1586**	**23.7**	1583	23.8	1588	23.7
444.namd	4	574	55.9	574	55.9	**574**	**55.9**	4	583	55.1	583	55.0	**583**	**55.0**
447.dealII	4	597	76.7	**589**	**77.7**	584	78.4	4	**575**	**79.5**	573	79.8	577	79.3
450.soplex	4	**1214**	**27.5**	1218	27.4	1212	27.5	4	1198	27.8	**1199**	**27.8**	1200	27.8
453.povray	4	289	73.5	290	73.4	**289**	**73.5**	4	**222**	**95.9**	222	96.0	222	95.7
454.calculix	4	616	53.6	**615**	**53.6**	615	53.7	4	601	54.9	603	54.7	**602**	**54.8**
459.GemsFDTD	4	1937	21.9	**1939**	**21.9**	1953	21.7	4	**1958**	**21.7**	1944	21.8	1959	21.7
465.tonto	4	**806**	**48.8**	805	48.9	808	48.7	4	779	50.5	**780**	**50.4**	783	50.3
470.lbm	4	**3009**	**18.3**	3059	18.0	3008	18.3	4	**3010**	**18.3**	3010	18.3	3010	18.3
481.wrf	4	1052	42.5	**1052**	**42.5**	1050	42.5	4	1058	42.2	1039	43.0	**1049**	**42.6**
482.sphinx3	4	1998	39.0	**1996**	**39.1**	1992	39.1	4	1964	39.7	**1961**	**39.8**	1960	39.8

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'
'/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 other inquiries, please contact webmaster@spec.org.

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