SPEC® CFP2006 Result

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Bull SAS

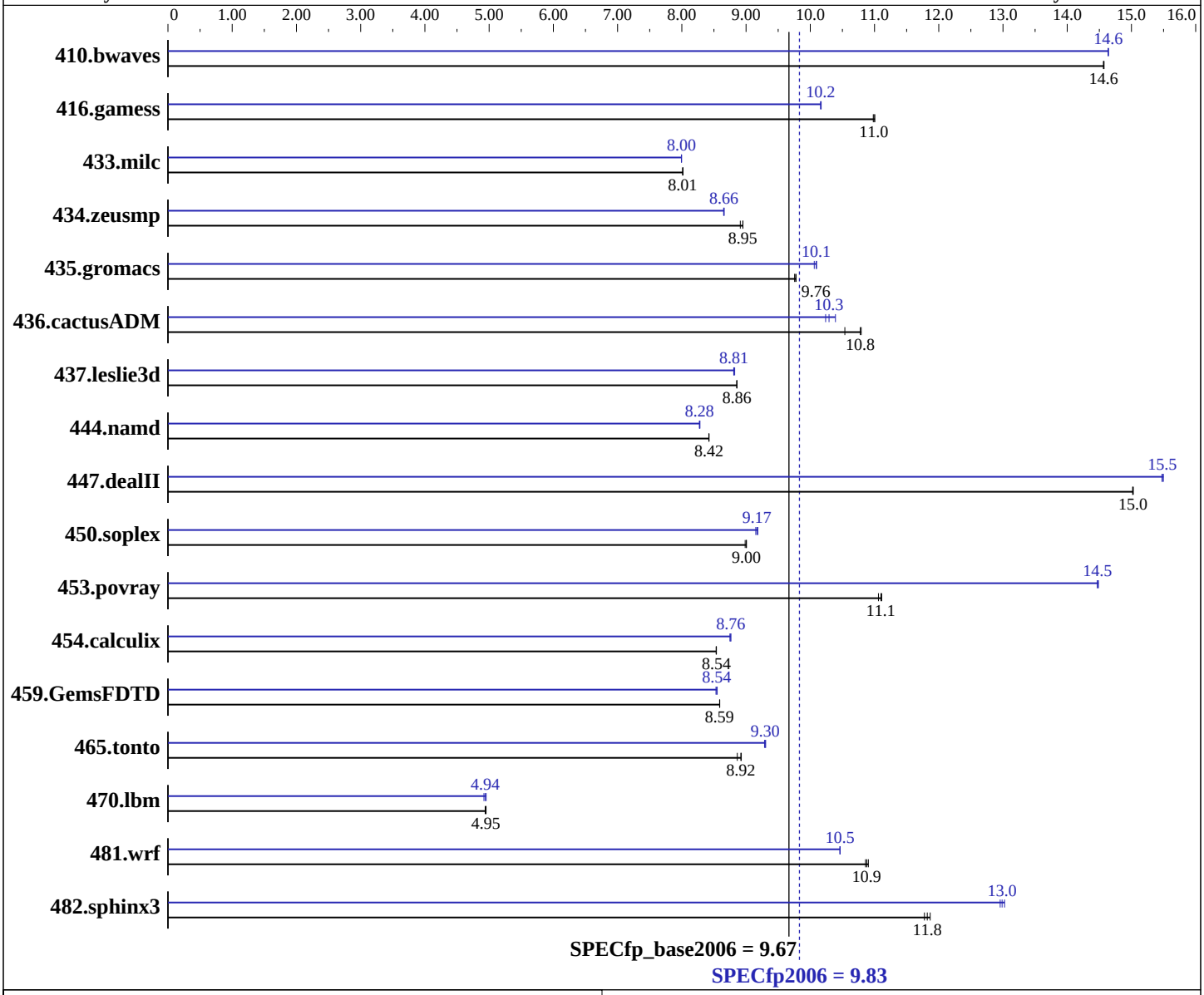
NovaScale T860
(Intel Xeon processor E5310,1.60GHz)

SPECfp®2006 = 9.83

SPECfp_base2006 = 9.67

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 E5310
CPU Characteristics:	1.60 GHz, 8 MB L2, 1066 MHz system bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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 (12x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x147 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	933	14.6	933	14.6	**933**	**14.6**	928	14.6	928	14.6	**928**	**14.6**
416.gamess	**1781**	**11.0**	1783	11.0	1779	11.0	1927	10.2	1925	10.2	**1927**	**10.2**
433.milc	1145	8.02	**1145**	**8.01**	1146	8.01	**1148**	**8.00**	1148	8.00	1148	7.99
434.zeusmp	1017	8.95	1021	8.91	**1017**	**8.95**	1051	8.66	1052	8.65	**1051**	**8.66**
435.gromacs	**732**	**9.76**	732	9.76	730	9.78	707	10.1	**708**	**10.1**	710	10.1
436.cactusADM	1134	10.5	1107	10.8	**1109**	**10.8**	1167	10.2	**1161**	**10.3**	1150	10.4
437.leslie3d	1061	8.86	1061	8.86	**1061**	**8.86**	1065	8.82	1067	8.81	**1067**	**8.81**
444.namd	**952**	**8.42**	952	8.42	952	8.42	968	8.28	969	8.27	**969**	**8.28**
447.dealII	**761**	**15.0**	761	15.0	762	15.0	739	15.5	738	15.5	**739**	**15.5**
450.soplex	**926**	**9.00**	926	9.01	928	8.99	**910**	**9.17**	908	9.18	911	9.15
453.povray	**479**	**11.1**	481	11.1	479	11.1	368	14.5	**368**	**14.5**	367	14.5
454.calculix	**966**	**8.54**	966	8.54	967	8.53	**942**	**8.76**	942	8.76	943	8.75
459.GemsFDTD	1235	8.59	**1235**	**8.59**	1235	8.59	1244	8.53	**1242**	**8.54**	1241	8.55
465.tonto	1102	8.93	**1103**	**8.92**	1110	8.86	**1058**	**9.30**	1059	9.29	1057	9.31
470.lbm	2774	4.95	**2777**	**4.95**	2782	4.94	2773	4.95	**2781**	**4.94**	2793	4.92
481.wrf	1029	10.9	**1027**	**10.9**	1024	10.9	1068	10.5	1067	10.5	**1068**	**10.5**
482.sphinx3	1642	11.9	1655	11.8	**1649**	**11.8**	1504	13.0	1496	13.0	**1501**	**13.0**

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'

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in menu.lst
/usr/bin/taskset utility used to bind CPU(s) to processes
```

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

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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