SPEC® CFP2006 Result

Bull SAS

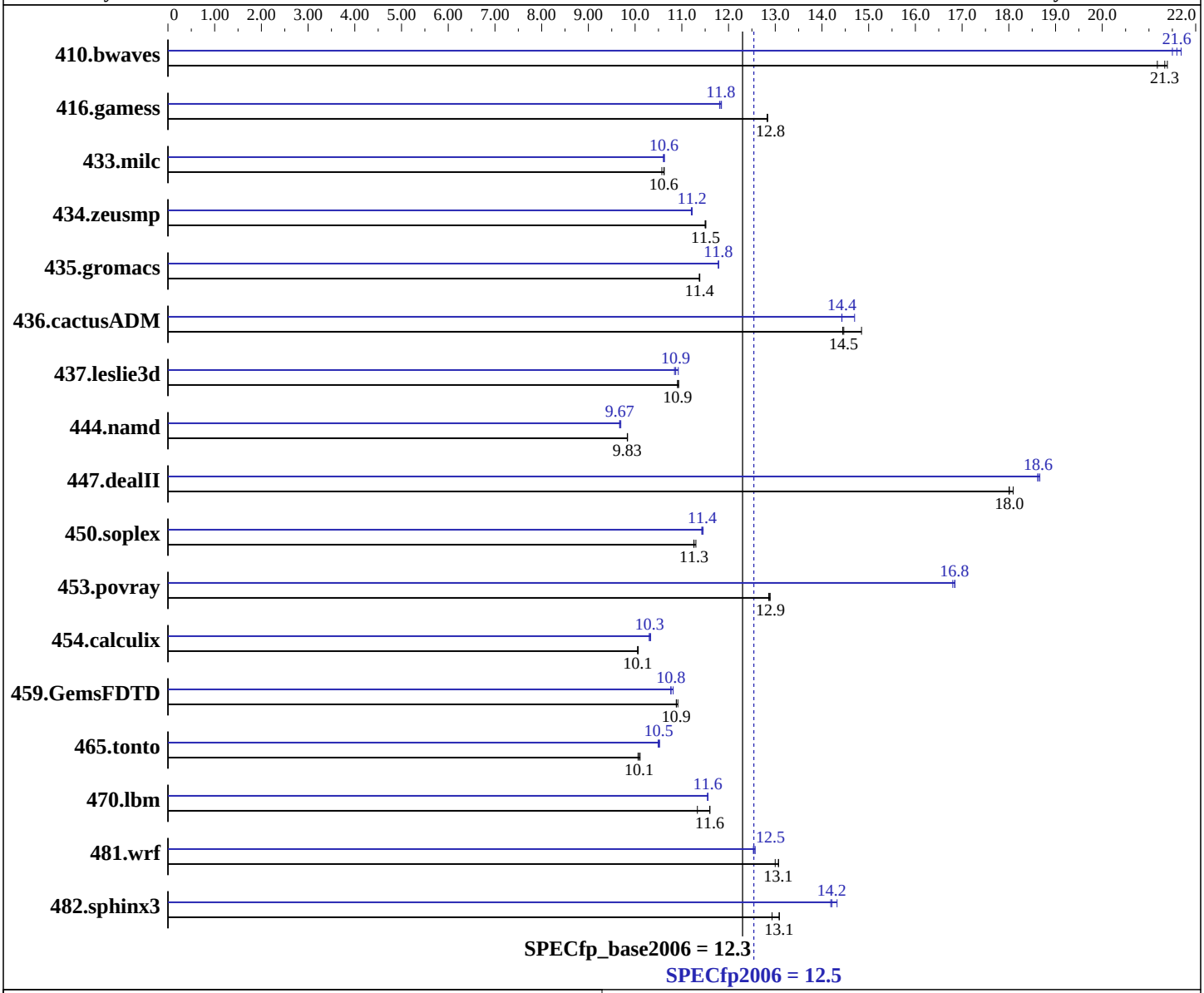
NovaScale R410
(Intel Xeon processor 3040,1.86GHz)

SPECfp®2006 = 12.5

SPECfp_base2006 = 12.3

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

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: Dec-2006



Hardware

CPU Name:	Intel Xeon 3040
CPU Characteristics:	1.86 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	2 MB I+D on chip per chip

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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	File System:	ext2
Other Cache:	None	System State:	Multi-user run level 3
Memory:	8 GB (4x2 GB) PC2-5300E ECC CL5	Base Pointers:	64-bit
Disk Subsystem:	1x80 GB SATA, 10000 RPM	Peak Pointers:	32/64-bit
Other Hardware:	None	Other Software:	None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	642	21.2	635	21.4	**637**	**21.3**	**629**	**21.6**	627	21.7	632	21.5
416.gamess	1526	12.8	1525	12.8	**1526**	**12.8**	**1654**	**11.8**	1658	11.8	1652	11.8
433.milc	868	10.6	864	10.6	**865**	**10.6**	**865**	**10.6**	866	10.6	864	10.6
434.zeusmp	791	11.5	790	11.5	**791**	**11.5**	812	11.2	811	11.2	**811**	**11.2**
435.gromacs	627	11.4	**627**	**11.4**	628	11.4	606	11.8	606	11.8	**606**	**11.8**
436.cactusADM	805	14.8	827	14.4	**826**	**14.5**	828	14.4	813	14.7	**828**	**14.4**
437.leslie3d	**861**	**10.9**	860	10.9	862	10.9	860	10.9	867	10.8	**865**	**10.9**
444.namd	815	9.84	816	9.83	**816**	**9.83**	829	9.67	827	9.69	**829**	**9.67**
447.dealII	632	18.1	**635**	**18.0**	635	18.0	613	18.7	**614**	**18.6**	614	18.6
450.soplex	**741**	**11.3**	741	11.3	738	11.3	730	11.4	728	11.5	**729**	**11.4**
453.povray	414	12.9	**413**	**12.9**	413	12.9	**316**	**16.8**	316	16.8	317	16.8
454.calculix	819	10.1	**820**	**10.1**	821	10.1	801	10.3	798	10.3	**800**	**10.3**
459.GemsFDTD	972	10.9	**975**	**10.9**	975	10.9	981	10.8	**985**	**10.8**	985	10.8
465.tonto	978	10.1	974	10.1	**975**	**10.1**	935	10.5	**936**	**10.5**	938	10.5
470.lbm	1184	11.6	**1185**	**11.6**	1212	11.3	1190	11.5	1188	11.6	**1189**	**11.6**
481.wrf	859	13.0	855	13.1	**855**	**13.1**	**890**	**12.5**	891	12.5	889	12.6
482.sphinx3	**1490**	**13.1**	1507	12.9	1489	13.1	**1371**	**14.2**	1374	14.2	1361	14.3

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
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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Base Compiler Invocation (Continued)

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

Continued on next page

Peak Compiler Invocation (Continued)

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.
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