SPEC® CFP2006 Result

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Bull SAS

NovaScale T820
(Intel Xeon processor 3060, 2.40GHz)

$SPECfp®2006 =$ 15.3

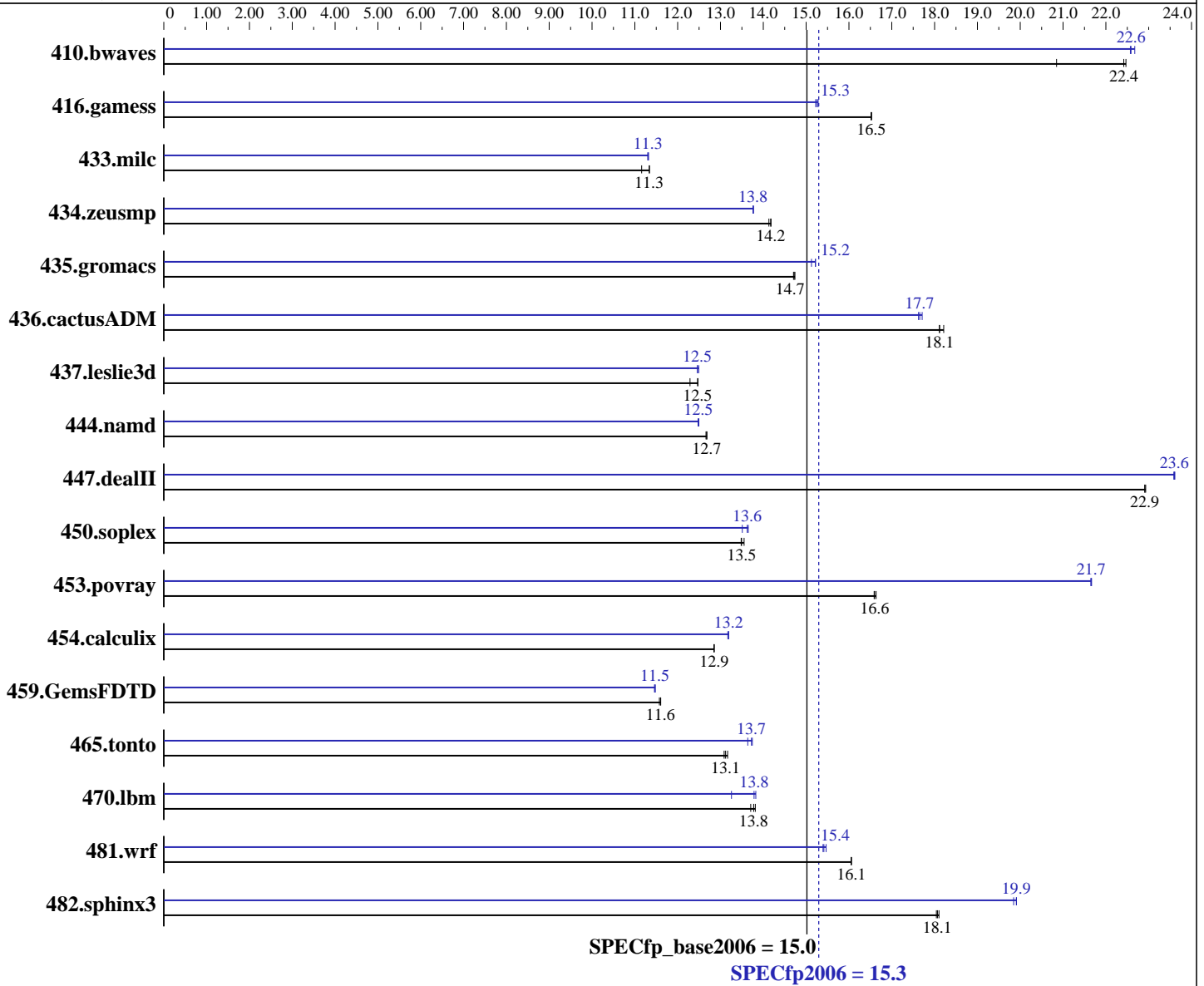$SPECfp\_base2006 =$ 15.0

CPU2006 license: 20

Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: May-2007

Hardware Availability: Mar-2007

Software Availability: Dec-2006

SPECfp_base2006 = 15.0

SPECfp2006 = 15.3

410.bwaves	22.6 / 22.4
416.gamess	15.3 / 16.5
433.milc	11.3 / 11.3
434.zeusmp	13.8 / 14.2
435.gromacs	15.2 / 14.7
436.cactusADM	17.7 / 18.1
437.leslie3d	12.5 / 12.5
444.namd	12.5 / 12.7
447.dealII	23.6 / 22.9
450.soplex	13.6 / 13.5
453.povray	21.7 / 16.6
454.calculix	13.2 / 12.9
459.GemsFDTD	11.5 / 11.6
465.tonto	13.7 / 13.1
470.lbm	13.8 / 13.8
481.wrf	15.4 / 16.1
482.sphinx3	19.9 / 18.1

Hardware

CPU Name: Intel Xeon 3060

CPU Characteristics: 2.40 GHz, 4 MB L2, 1066 MHz system bus

CPU MHz: 2400

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: 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

Continued on next page

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L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1 GB) PC2-4200E ECC CL4
Disk Subsystem:	1x160 GB SATA2, 7200 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 Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	652	20.8	605	22.5	**606**	**22.4**	602	22.6	**602**	**22.6**	599	22.7
416.gamess	1186	16.5	1185	16.5	**1185**	**16.5**	**1284**	**15.3**	1281	15.3	1286	15.2
433.milc	823	11.2	809	11.3	**810**	**11.3**	811	11.3	**812**	**11.3**	812	11.3
434.zeusmp	644	14.1	642	14.2	**642**	**14.2**	**661**	**13.8**	661	13.8	661	13.8
435.gromacs	486	14.7	**485**	**14.7**	484	14.7	469	15.2	472	15.1	**469**	**15.2**
436.cactusADM	**660**	**18.1**	656	18.2	660	18.1	**677**	**17.7**	678	17.6	675	17.7
437.leslie3d	765	12.3	**754**	**12.5**	754	12.5	752	12.5	754	12.5	**754**	**12.5**
444.namd	**633**	**12.7**	632	12.7	633	12.7	**642**	**12.5**	643	12.5	642	12.5
447.dealII	499	22.9	499	22.9	**499**	**22.9**	**485**	**23.6**	485	23.6	485	23.6
450.soplex	615	13.6	619	13.5	**618**	**13.5**	617	13.5	611	13.6	**612**	**13.6**
453.povray	320	16.6	321	16.6	**321**	**16.6**	**246**	**21.7**	246	21.6	246	21.7
454.calculix	642	12.9	**642**	**12.9**	642	12.8	**625**	**13.2**	625	13.2	626	13.2
459.GemsFDTD	917	11.6	914	11.6	**915**	**11.6**	926	11.5	924	11.5	**925**	**11.5**
465.tonto	**750**	**13.1**	747	13.2	752	13.1	722	13.6	716	13.7	**717**	**13.7**
470.lbm	1002	13.7	**997**	**13.8**	995	13.8	**997**	**13.8**	1036	13.3	994	13.8
481.wrf	**696**	**16.1**	696	16.1	696	16.1	**725**	**15.4**	726	15.4	722	15.5
482.sphinx3	**1079**	**18.1**	1077	18.1	1080	18.0	**979**	**19.9**	982	19.8	979	19.9

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

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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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